Supplementary Online Content


eAppendix. Search Strategies

This supplementary material has been provided by the authors to give readers additional information about their work.
eAppendix. Search Strategies

All bibliographic databases were searched May 13, 2016 and updated on October 6, 2016. Clinicaltrials.gov and websites were searched June 10, 2013 and again on October 6, 2013.

Ovid MEDLINE
Searched from 1946 to May Week 1, 2016 and In-Process & Other Non-Indexed Citations May 11, 2016. Updated search 2016 to September Week 4 2016 and In-Process & Other Non-Indexed Citations October 3, 2016.

MEDLINE

1. Education, Medical, Undergraduate/
2. Students, Medical/
3. (medical adj (student$ or undergrad$)).tw.
4. or/1-3
5. exp Emotions/
6. personal satisfaction/
7. (feel$ or emotion$ or affect or mood$ or anxiet$ or anxious$ or fear$ or frustrat$ or happie$ or happy or sad or lonely or loneli$ or please$ or pleasure or hate$ or anger$ or guilt$ or shame$ or hope$ or hostil$ or jealous$ or satisf$).tw.
8. cultur$.tw.
9. (burnout or stress$ or wellness or well-being or depress$).tw.
10. (abus$ or mistreat$ or harass$ or hostil$ or punish$ or professional$ or unprofessional$ or support$ or unsupport$ or humiliat$ or disparag$ or ignor$ or unsafe or safe$ or harm$ or personal service or appropriat$ or innappropriat$ or respect$ or disresct$).tw.
11. empathy/
12. (empath$ or compassion or collegial$ or resilien$ or cooperat$ or collaborat$ or kind$ or integrity).tw.
13. exp prejudice/
14. (discriminat$ or sexism or sexist or sexual or racis$ or race or ethnic$ or bias$).tw.
15. or/5-14
16. exp "Surveys and Questionnaires"/
17. interview/
18. Interview, Psychological/
19. feedback/
20. (survey$ or questionnaire$).tw.
21. ((program$ or course or curricul$) adj2 (evaluat$ or feedback or view$ or opinion$)).tw.
22. (structure$ adj interview$).tw.
23. or/16-22
24. exp United States/

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The Cochrane Library
All databases were searched from inception to May 13, 2016. Updated search year 2016 only.

#1 MeSH descriptor: [Education, Medical, Undergraduate] this term only
#2 MeSH descriptor: [Students, Medical] this term only
#3 (medical next (student* or undergrad*)):ti,ab
#4 #1 or #2 or #3
#5 MeSH descriptor: [Emotions] explode all trees
#6 MeSH descriptor: [Personal Satisfaction] this term only
#7 (feel* or emotion* or affect or mood* or anxiet* or anxious* or fear* or frustrat* or happi* or happy or sad or lonely or loneli* or please* or pleasure or hate* or anger* or guilt* or shame* or hope* or hostil* or jealous* or satisf*):ti,ab
#8 cultur*:ti,ab
#9 (burnout or stress* or wellness or well-being or depress*):ti,ab
#10 (abus* or mistreat* or harass* or hostil* or punish* or professional* or unprofessional* or support* or unsupport* or humiliat* or disparag* or ignor* or unsafe or safe* or harm* or "personal service" or appropriat* or inappropriat* or respect* or disprest*):ti,ab
#11 MeSH descriptor: [Empathy] this term only
#12 (empath* or compassion or collegial* or resilien* or cooperat* or collaborat* or kind* or integrity):ti,ab
#13 MeSH descriptor: [Prejudice] explode all trees
#14 (discriminat* or sexism or sexist or sexual or racis* or race or ethnic* or bias*):ti,ab
#15 #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14
#16 MeSH descriptor: [Surveys and Questionnaires] explode all trees
#17 MeSH descriptor: [Interview] this term only
#18 MeSH descriptor: [Interview, Psychological] this term only
#19 MeSH descriptor: [Feedback] this term only
#20 (survey* or questionnaire*):ti,ab
#21 (program* or course or curricul*) near/2 (evaluat* or feedback or view* or opinion*)):ti,ab
#22 (structure* next interview*):ti,ab
#23 #16 or #17 or #18 or #19 or #20 or #21 or #22
#24 MeSH descriptor: [United States] explode all trees
#25 ("united states" or usa or america*):ti,ab
#26 #24 or #25
#27 #4 and #15 and #23 and #26

EMBASE (EMBASE.com)

#27. #5 AND #18 AND #23 AND #27 AND [english]/lim AND [embase]/lim
#26. #24 OR #25

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#25. 'united states':ab,ti OR usa:ab,ti OR america*:ab,ti
#24. 'united states'/exp
#23. #19 OR #20 OR #21 OR #22
#22. 'structure* interview*':ab,ti
#21. ((program* OR course OR curricul*) NEAR/2 (evaluat* OR feedback OR view* OR opinion*)):ab,ti
#20. survey*:ab,ti OR questionnaire*:ab,ti
#19. 'interview'/de OR 'semi structured interview'/de 163,741 13 May 2016
#18. #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17
#17. discriminat*:ab,ti OR sexism:ab,ti OR sexist:ab,ti OR sexual:ab,ti OR racis*:ab,ti OR race:ab,ti OR ethni*:ab,ti OR bias*:ab,ti
#16. 'sexism'/exp
#15. 'racism'/de
#14. 'prejudice'/de
#13. empath*:ab,ti OR compassion:ab,ti OR collegial*:ab,ti OR resilien*:ab,ti OR cooperat*:ab,ti OR collaborat*:ab,ti OR kind*:ab,ti OR integrity:ab,ti
#12. 'empathy'/de
#11. abus*:ab,ti OR mistreat*:ab,ti OR harass*:ab,ti OR hostil*:ab,ti OR punish*:ab,ti OR professional*:ab,ti OR unprofessional*:ab,ti OR support*:ab,ti OR unsupport*:ab,ti OR harm*:ab,ti OR personal service*:ab,ti OR appropiat*:ab,ti OR innappropiat*:ab,ti OR respect*:ab,ti OR disprecst*:ab,ti
#10. burnout:ab,ti OR stress*:ab,ti OR wellness*:ab,ti OR well being*:ab,ti OR depress*:ab,ti
#9. cultur*:ab,ti
#8. feel*:ab,ti OR emotion*:ab,ti OR affect*:ab,ti OR mood*:ab,ti OR anxiet*:ab,ti OR anxious*:ab,ti OR fear*:ab,ti OR frustrat*:ab,ti OR happi*:ab,ti OR happy*:ab,ti OR sad*:ab,ti OR lonely*:ab,ti OR loneli*:ab,ti OR please*:ab,ti OR pleasure*:ab,ti OR hate*:ab,ti OR anger*:ab,ti OR guilt*:ab,ti OR shame*:ab,ti OR hope*:ab,ti OR hostil*:ab,ti OR jealou*:ab,ti OR satisf*:ab,ti
#7. 'student satisfaction'/exp
#6. 'emotion'/exp
#5. #1 OR #2 OR #3 OR #4
#4. 'medical undergrad*':ab,ti
#3. 'medical student*':ab,ti
#2. 'medical student'/de
#1. 'medical school'/exp

ERIC (EBSCOhost)
S7 TI (feel* OR emotion* OR affect OR mood* OR anxiet* OR anxious* OR fear* OR frustrat* OR happi* OR happy OR sad OR lonely OR loneli* OR please* OR pleasure OR hate* OR anger* OR guilt* OR shame* OR hope* OR hostil* OR jealous* OR satisf* ) OR AB (feel* OR emotion* OR affect OR mood* OR anxiet* OR anxious* OR fear* OR frustrat* OR happi* OR happy OR sad OR lonely OR loneli* OR please* OR pleasure OR hate* OR anger* OR guilt* OR shame* OR hope* OR hostil* OR jealous* OR satisf* )
S8 TI cultur* OR AB cultur*
S9 TI (burnout OR stress* OR wellness OR well-being OR depress* ) OR AB (burnout OR stress* OR wellness OR well-being OR depress* )
S10 TI (abus* OR mistreat* OR harass* OR hostil* OR punish* OR professional* OR unprofessional* OR support* OR unsupport* OR humiliat* OR disparag* OR ignor* OR unsafe OR safe* OR harm* OR "personal service" OR appropriat* OR inappropiat* OR respect* OR dispresct* ) OR AB (abus* OR mistreat* OR harass* OR hostil* OR punish* OR professional* OR unprofessional* OR support* OR unsupport* TI (empath* OR compassion OR collegial* OR resilien* OR cooperat* OR collaborat* OR kind* OR integrity ) OR AB (empath* OR compassion OR collegial* OR resilien* OR cooperat* OR collaborat* OR kind* OR integrity )humiliat* OR disparag* OR ignor* OR unsafe OR safe* OR harm* OR "personal service" OR appropriat* OR inappropiat* OR respect* OR dispresct* )
S11 DE "Empathy"
S12 DE "Bias"
S13 DE "Gender Bias"
S14 DE "Racial Bias"
S15 TI (discriminat* OR sexism OR sexist OR sexual OR racis* OR race OR ethnic* OR bias* ) OR AB (discriminat* OR sexism OR sexist OR sexual OR racis* OR race OR ethnic* OR bias* )
S16 S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15
S17 DE "Student Surveys"
S18 DE "Semi Structured Interviews" OR DE "Structured Interviews"
S19 DE "Feedback (Response)"
S20 TI (survey* OR questionnaire* ) OR AB (survey* OR questionnaire* )
S21 TI ((program* OR course OR curricul*) N2 (evaluat* OR feedback OR view* OR opinion*)) OR AB ((program* OR course OR curricul*) N2 (evaluat* OR feedback OR view* OR opinion*))
S22 TI structur* interview* OR AB structur* interview*
S23 S17 OR S18 OR S19 OR S20 OR S21
S24 TI ("united states" OR usa OR america*)) OR AB ("united states" OR usa OR america*))
S25 S5 AND S16 AND S23 AND S24

Clinicaltrials.gov

student | Closed Studies | Studies With Results
Closed Studies | Studies With Results | stress | United States | Adult | Other
Closed Studies | Studies With Results | anxiety OR depression | United States | Adult | Other

Websites Searched

- **AAMC** (Association of American Medical Colleges)
- **AMA** (American Medical Association)
- **APSA** (American Physician Scientists Association)

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• **AMSA** (American Medical Student Association)
• **LCME** (Liaison Committee on Medical Education)
• **ACGME** (Accreditation Council for Graduate Medical Education)