Describing the evidence linking interprofessional education interventions to improving the delivery of safe and effective patient care: A scoping review

**APPENDIX 1. Literature Search Strategies**

**MEDLINE (Ovid) ALL 1946 to April 24, 2020**

**Date Searched: 4.27.2020; Results – 2095**

**Search Strategy**

exp Interprofessional relations/ and (collaborat$ or team$).tw.

exp patient care team/ and (collaborat$ or team$).tw.

((interprofession$ or inter-profession$ or inter profession$) adj (collaborat$ or team$)).tw.

((interdisciplin$ or inter-disciplin$) adj (collaborat$ or team$)).tw.

((Interoccupation$ or inter-occupation$) adj (collaborat$ or team$)).tw.

((multiprofessional$ or multi-profession$) adj (collaborat$ or team$)).tw.

(((multidisciplin$ or multi-disciplin$) adj collaborat$) or team$).tw.

(((multioccupation$ or multi-occupation$) adj collaborat$) or team$).tw.

((transdisciplin$ or trans-disciplin$) adj (collaborat$ or team$)).tw.

(team$ adj collaborat$).tw.

1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10

(education$ or train$ or learn$ or teach$ or course$).tw.

exp health personnel/ed

exp education, continuing/

exp education, graduate/

exp Education, medical/

exp Education, nursing/

exp Education, dental/

Allied health personnel/ed

exp Professional practice/

12 or 14 or 15 or 16 or 17 or 18 or 19

exp Quality indicators, Healthcare/

exp Length of stay/

exp medication errors/

exp medical errors/

exp patient satisfaction/ or patient satisfaction scores.tw.

exp care transition/ or transition of care.tw. or care coordination.tw.

exp medication adherence/

exp patient education/ or caregiver education.tw.

exp hospice care/ or improved hospice usage.tw. or hospice referral.tw.

exp mortality/ or mortality rates.tw. or decreased mortality rates.tw.

exp infection control/ or lower infection rates.tw.

exp patient readmission/ or reduced readmission rates.tw.

22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33

11 and 21 and 34

limit 35 to yr="2015 -Current"

limit 36 to english language

**JBI Joanna Briggs**

**Date Searched 4.27.2020; Results - 88**

**Search Strategy**

exp Interprofessional relations/ and (collaborat$ or team$).tw.

exp patient care team/ and (collaborat$ or team$).tw.

((interprofession$ or inter-profession$ or inter profession$) adj (collaborat$ or team$)).tw.

((interdisciplin$ or inter-disciplin$) adj (collaborat$ or team$)).tw.

((Interoccupation$ or inter-occupation$) adj (collaborat$ or team$)).tw.

((multiprofessional$ or multi-profession$) adj (collaborat$ or team$)).tw.

(((multidisciplin$ or multi-disciplin$) adj collaborat$) or team$).tw.

(((multioccupation$ or multi-occupation$) adj collaborat$) or team$).tw.

((transdisciplin$ or trans-disciplin$) adj (collaborat$ or team$)).tw.

(team$ adj collaborat$).tw.

1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10

(education$ or train$ or learn$ or teach$ or course$).tw.

exp health personnel/ed

exp education, continuing/

exp education, graduate/

exp Education, medical/

exp Education, nursing/

exp Education, dental/

Allied health personnel/ed

exp Professional practice/

12 or 14 or 15 or 16 or 17 or 18 or 19

exp Quality indicators, Healthcare/

exp Length of stay/

exp medication errors/

exp medical errors/

exp patient satisfaction/ or patient satisfaction scores.tw.

exp care transition/ or transition of care.tw. or care coordination.tw.

exp medication adherence/

exp patient education/ or caregiver education.tw.

exp hospice care/ or improved hospice usage.tw. or hospice referral.tw.

exp mortality/ or mortality rates.tw. or decreased mortality rates.tw.

exp infection control/ or lower infection rates.tw.

exp patient readmission/ or reduced readmission rates.tw.

22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33

11 and 21 and 34

limit 35 to yr="2015 -Current"

**CINAHL (EBSCO)**

**Date Searched: 5.29.2020; Results - 145**

**Search Strategy**

S13 AND S25 AND S38

S13 AND S25 AND S38

S13 AND S25 AND S38

S26 OR S27 OR S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37

patient readmission OR reduced readmission rates

infection control OR lower infection rates

mortality OR mortality rates OR decreased mortality rates

hospice care OR improved hospice usage OR hospice referral

patient education OR caregiver education

medication adherence

care transition OR transition of care OR care coordination

patient satisfaction OR patient satisfaction scores

medical errors

medication errors

length of stay

healthcare quality indicators OR quality indicators

S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24

professional practice

allied health education

dental education

nursing education

medical education

graduate education

continuing education

health personnel education

TW health personnel education

exp health personnel/ AND education

TW education$ or train$ or learn$ or teach$ or course$)

S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12

TX team\* N1 collaborat\*

TX ((multioccupation\* or multi-occupation\*) N1 (collaborat\* or team\*))

TX ((transdisciplin\* or trans-disciplin\*) N1 (collaborat\* or team\*))

((multioccupation\* or multi-occupation\*) N1 (collaborat\* or team\*))

TX ((multioccupation\* or multi-occupation\*) N1 (collaborat\* or team\*))

TX ((multidisciplin\* or multi-disciplin\*) N1 (collaborat\* or team\*))

TX ((multiprofession\* or multi-profession\*) N1 (collaborat\* or team\*))

TX ((interoccupation\* or inter-occupation\*) N1 (collaborat\* or team\*))

((interdisciplin\* or inter-disciplin\*)) N1 (collaborat\* or team\*))

TX ((interprofession\* or inter-profession\*) N1 (collaborat\* or team\*))

MH " Multidisciplinary Care Team+") AND TX ((collaborat\* or team\*))

(MH "Interprofessional Relations+") AND TX ((collaborat\* or team\*))

**Cochrane Database of Systematic Reviews** **Issue 4 of 12, April 2020**

**Date Searched: 4.27.2020; Results - 7**

Inter-professional in Title/Abs/keyword

**Cochrane Central Register of Controlled Trials Issue 4 of 12,**

**Date Searched: April 2020 4.27.2020; Results - 21**

Interprofesional in Title/ abs / Keyword

**Web of Science**

**Date Searched: 5.2.2020; Results - 401**

**Science Citation Index Expanded (SCI-EXPANDED) --1900-present**

**Social Sciences Citation Index (SSCI) --1900-present**

**Search Strategy**

"TS=(""interprofessional education"" or ""inter-professional education"" OR ""patient care team"") AND TS=(effective\*

OR ""Quality indicators"" OR ""length of stay"" OR ""medication errors"" OR ""medical errors"" OR ""patient satisfaction"" OR mortality))

AND LANGUAGE:(English) AND DOCUMENT TYPES (Article)

Indexes=SCI-EXPANDED, SSCI Timespan=Last 5 years"

**SCOPUS**

**Date Search: 4.27.2020; Results - 398**

( TITLE-ABS- KEY ( \*interprofessional  AND  education  AND  quality )  PUBYEAR  >  2015 )  AND  ( "patient  care" )  Results: 393

( TITLE-ABS-KEY ( \*interprofessional  AND  education  AND  "quality indicators" )  PUBYEAR  >  2015 )  AND  ( "patient care" ) Results: 5.

**Science Direct**

**Date Searched: 7.27.2020; Results - 98**

Title, abstract, keywords: interprofessional interventions, patient care Results: 96

Title, abstract, keywords: interprofessional education, healthcare indicators Results: 2

**Academic Search Premier (EBSCO)**

**Date searched: 5.2.2020; Results - 254**

**Search Strategy**

S1 interprofessional education AND effectiveness AND (patient care or patient safety or patient outcome)

S2 interprofessional education AND effectiveness AND (patient care or patient safety or patient outcome)

S3 interprofessional education AND effectiveness AND (patient care or patient safety or patient outcome)

**ERIC (EBSCO)**

**Date Searched: 4.27.2020; Results - 40**

interprofessional education AND healthcare AND patient care

interprofessional education AND healthcare AND quality

interprofessional education AND healthcare

interprofessional education AND healthcare

interprofessional education AND healthcare

**Conference Proceedings in Web of Science**

**Date Searched: 5.2.2020; Results - 4**

Conference Proceedings Citation Index- Science (CPCI-S) --1990-present - 0

Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) --1990-present – 4

(TS=("interprofessional education" or "inter-professional education" OR "patient care team") AND TS=(effective\* OR "Quality indicators" OR "length of stay" OR "medication errors" OR "medical errors" OR "patient satisfaction" OR mortality))  AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article) Indexes=CPCI-S, CPCI-SSH Timespan=Last 5 years

**Dissertation Abstracts and Global Theses ProQuest**

**Date Searched: 4.27.2020; Results - 13**

Interprofessional education AND healthcare quality

Health Quality indicators

**Grey Literature**

**Date Searched: 5.2.2020; Results - 62**

UK Centre for the Advancement of Interprofessional Education https://www.caipe.org/

Reviewed Google Scholar first 75 results on 5.2.2020 – Results 62

Canadian Interprofessional Health Collaborative http://www.cihc-cpis.com/

IPEC https://www.ipecollaborative.org/about-ipec.html – Results 2

**Handsearching**

**Author Experts – Searched Scopus by Author**

**Date Searched: 4.27.2020; Results - 61**

Reeves, Scott 4.27.2020 31 AU-ID ( "Reeves, Scott"   7102635633 )

Perrier, Laure 4.27.2020 4 (AU-ID ( "Perrier, Laure"   56470673600)

Goldman, Joanne 4.27.2020 10 AU-ID (“Goldman, Joanne B."   14066120700)

Freeth, Della S 4.27.2020 5 AU-ID (“Freeth, Della S."   6603012825)

Zwarenstein, Merrick 4.27.2020 8 AU-ID (“Zwarenstein, Merrick"   7003482388)

Barr, Hugh (London) 4.27.2020 10 AU-ID ("Barr, Hugh"   7102182332)

Ross, Fiona (London) 4.27.2020 4 AU-ID ("Ross, Fiona M."   7202838828)

**Hand Search Journals**

**Date Searched: 5.2.2020; Results - 203**

**Journal of Interprofessional Education & Practice**: **(Results: 167)**

Keywords: IPE & Healthcare quality indicators length of stay, Patient satisfaction, length of stay, Patient satisfaction

**The Journal of Research in Interprofessional Practice and Education**

**Journal of Interprofessional Care: (Results 19)**

[All: quality indicators] AND [in Journal: Journal of Interprofessional Care] AND [Publication Date: (01/01/2015 TO 12/31/2020)] Your search for [Keywords: "patient care"] AND [Keywords: "interprofessional"] AND [in Journal: Journal of Interprofessional Care] AND [Publication Date: (01/01/2015 TO 12/31/2020)]

**Medical Education: (Results 17)**

"interprofessional+education" in Title published in "Medical Education"

**Updated Search in PubMed on December 12, 2021, Limited to: 2020-06-01 – 2021-11-30. (Results 991)**

("Interprofessional Relations"[Mesh] AND "Patient Care Team"[Mesh]) OR "interdisciplinary studies"[MeSH Terms] OR ((interprofession\* OR multiprofession\* OR interdisciplin\*) AND (Team\* OR "Patient Care Team"[Mesh])) AND (assessment OR competence OR competencies OR competency OR evaluation OR effectiveness OR "Professional Competence"[Mesh] OR "Educational Measurement"[Mesh] OR "Program Evaluation"[Mesh] OR "Self-Assessment"[Mesh]) AND (("Curriculum"[Mesh] OR "education"[Subheading] OR "Patient Simulation"[Mesh] OR "Models, Educational"[Mesh] OR assignment\* OR didactic OR experiential OR "teaching"[MeSH Terms] OR teaching OR pedagogy OR curriculum) AND (medical OR medicine OR “medicine"[MeSH Terms] OR "Education, Medical"[Mesh] OR "Students, Medical"[Mesh] OR "Education, Professional"[Mesh]))