Review title: Social Accountability in Medical School Admissions (SAMSA)

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Background to the topic

Who we admit to medical school is a fundamental issue in medical education. For many years this was largely a matter of identifying those individuals who would make the best doctors. More recently, with a growing focus on the social missions of medical schools, admissions committees are looking at different factors and different outcomes, and seeking to better understand what is meant by the term "best" in a modern context. There is a growing focus on the social accountability of medical schools (Cappon et al., 2001; Boelen & Woollard 2011), which has been defined as "the obligation [of medical schools] to direct education, research and service activities towards addressing the priority health concerns of the community, region, and/or nation they have the mandate to serve" (Boelen & Heck 1995). Although this can be expressed in many ways, a key element is aligning the admissions processes of the school with the desired outcomes of the social mission. This might mean providing pipeline programs for underrepresented groups, looking for a particular profile of incoming students (such as reflecting the population demographic or those with a disposition to serving in community settings), or involving community members in selecting students for the school (Henry et al. 2009; Cosgrove et al. 2007; Thomson et al. 2010). Our own school has recently implemented a *Pathways to Medicine* scholarship modeled on a pipeline program at the University of New Mexico, to facilitate the recruitment of students from low income, rural and aboriginal backgrounds.

Although there has been some systematic review activity around general admissions issues (Ferguson et al., 2002 the only substantive source we found) there has been no substantive review of admissions related to the social mission of medical schools. We propose to address this gap in the literature through a critical review of the literature on admissions in the context of and related to the social missions of medical schools. This is the focus of the Social Accountability in Medical School Admissions (SAMSA) review.

This is a critical scoping review. Critical in the sense we anticipate dealing with socio-political issues associated with social missions as well as the more procedural aspects of admissions, and scoping in the sense that we are seeking to identify key issues and concepts in this area and to appraise the extent and strength of the research effort in this area.

This is an important issue to us as a team and for our school as we explore the many options for configuring our admissions processes and seek to align them with our own social mission. Given the worldwide interest in social accountability we think that this topic will also be of general interest in the medical education community.

Definitions

We acknowledge that language related to this topic varies within and between institutions. For the purpose of this study, we will use the following definitions in this study:

- *Selection:* The process through which a group of applicants are appraised for first, their suitability for a career in medicine, and second, their suitability for entry to a particular program of medicine. Selection ends with the creation of the final ranked list of which suitable students will be offered admission to the medical school.

- *Recruitment:* The collected processes of attracting and persuading individuals to be applicants to a particular medical education program, or to accept an offer of admission once made.

- *Admission:* The longitudinal and largely administrative process that starts with recruitment to a program and ends with students starting their undergraduate medical education.

- *Social mission:* The values and concepts adopted by a medical school regarding the expression of their social contract. A social mission may involve one or more of the following:

  o *Socially Responsible:* A socially responsible medical school is one that is committed to what faculty intuitively considers as the welfare of society. The intention to produce "good practitioners" is based on an implicit identification of society's health needs (Boelen et al., 2012).

  o *Socially Accountable*: The socially accountable medical school is the one that takes specific actions through its education, research and service activities to meet the priority health needs of society. It also works collaboratively with governments, health service organizations, and the public to positively impact people's health and being able to demonstrate this by providing evidence that its work is relevant, of high quality, equitable, cost-effective (Boelen et al., 2012).

  o *Social contract* – According to Cruess & Cruess medicine's relationship with the society is based on professionalism. This relationship is termed as a social contract (Cruess & Cruess 2008).

Review topic/question(s), objectives and key words

This review will investigate how medical schools' social missions are related to the recruitment and selection of students for their undergraduate programs. More specifically our study question is:

"How do the social missions of medical schools translate to their admissions policies and practices for undergraduate medical education and how do their admission policies and practices contribute to their social missions?"

Our objectives are to:

1. Identify published empirical and non-empirical evidence of how medical schools' social missions are translated to their undergraduate admissions process and how their admissions processes support their social missions.

2. Relate the socio-political aspects of admissions to social missions.

3. Review the strengths and weaknesses of the research effort into this area.

4. Review and critique the social and conceptual basis for the literature in this area

5. Synthesize existing knowledge and identify gaps and opportunities for future studies

Keywords: social accountability; social contract/social mission; admission, selection, recruitment

Search strategy

A: Study selection criteria: We will include articles of any study design that discuss undergraduate medical school admissions and an aspect of the social mission, that are in English, and were published between 1970 and the present day.

B: Pilot: We conducted a pilot for this study to help us focus down on our review question and to provisionally scope out the nature of the literature in this area:

- *Step 1:* Working with the librarians at the Cumming School of Medicine, we conducted an initial scoping search using Google Scholar using the search term "Social accountability in medical school admissions". Twenty-four articles were returned that met our relevance criteria of addressing all three: medical education, social mission, and admissions according to their titles and abstracts. We then scanned the references in each of these papers to identify key reference

papers. These papers were then appraised for relevance as before. This gave us 42 papers for initial review.

- *Step 2:* Two members (RE & SB) of the team separately read these 42 articles and tagged them as relevant/not-relevant in terms of addressing medical education, social mission, and admissions together. We rejected 22 papers on this basis. We made notes on the key issues and themes arising from the remaining 20 papers. This informed the more detailed pilot searches we carried out in step 3.

- *Step 3:* Pilot searches were carried out using Medline (Ovid), PubMed, CINAHL, Medline (Embase), Web of Science, Eric and Scopus databases in mid-2015. Two separate types of literature searches were carried out. The first literature search was done on all the seven databases using the following key words: 'social accountability, medical school and admissions' (See Appendix 1). The second search was done on all seven databases using the following key words: "(select or recruit or admission) and medical school and (social accountability or social contract or social mission)" (See Appendix 2). The results for these literature searches were then exported to Endnote X7 and separate libraries for each literature search were maintained. We noted the differences in keywords, the extent of overlap and duplication, and the impact of changing the search terms.

- *Step 4:* We discussed the 20 relevant pilot articles and the results of the pilot searches to build this main review protocol.

C: Targets and search terms: We plan to search the following databases in this review: PubMed, Medline (EMBASE), CINAHL, Web of Science, Eric, and Scopus. Search terms for each database as follows

Pubmed	((((select[All Fields] OR recruit[All Fields]) OR admission[All Fields]) AND ("schools, medical"[MeSH Terms] OR ("schools"[All Fields] AND "medical"[All Fields]) OR "medical schools"[All Fields] OR ("medical"[All Fields] AND "school"[All Fields]) OR "medical school"[All Fields])) AND ((("social responsibility"[MeSH Terms] OR ("social"[All Fields] AND "responsibility"[All Fields]) OR "community-oriented"[All Fields] OR "community-based"[All Fields] OR "social responsibility"[All Fields] OR ("social"[All Fields] AND "accountability"[All Fields]) OR "social accountability"[All Fields]) OR (social[All Fields] AND ("religious missions"[MeSH Terms] OR ("religious"[All Fields] AND "missions"[All Fields]) OR "religious missions"[All Fields] OR "mission"[All Fields]))) OR (social[All Fields] AND ("contracts"[MeSH Terms] OR "contracts"[All Fields] OR "contract"[All Fields]))))) AND (("1970/01/01"[PDAT] : "2015/08/31"[PDAT]) AND English[lang])
EMBASE	1. recruit*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	2. select*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	3. admission*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	4. 1 or 2 or 3
	5. exp medical school/ or medical school*.mp.

	6. social accountability*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	7. social contract.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	8. social mission*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	9. community-based*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	10. community-oriented*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]
	11. 6 or 7 or 8 or 9 or 10
	12. 4 and 5 and 11
	13. limit 12 to (english language and yr="1970 - 2015")
CINAHL	[AB recruit OR AB select OR AB admission] AND [AB medical school] AND [AB social contract OR AB social responsibility OR AB social accountability OR AB community-based OR AB community-oriented]
	Limiters:
	Published Date: 19700101-20151031
WoS	[TOPIC: (social contract) OR TOPIC: (social responsibility) OR TOPIC: (social accountability) OR TOPIC: (community-based) OR TOPIC: (community-oriented) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015] AND [TOPIC: (medical school) *Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015]* AND [TOPIC: (select) OR TOPIC: (recruit) OR TOPIC: (admission) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015]
ERIC	[TX select OR TX recruit OR TX admission] AND [TX medical school] AND [TX social contract OR TX social responsibility OR TX social accountability OR TX community-based OR TX community-oriented]
	Limiters:
	Published Date: 19700101-20151031
	Language: English
SCOPUS	((ABS (social accountability) OR ABS (social contract) OR ABS (community-based) OR ABS (community-oriented) OR ABS (social mission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND ((ABS (select) OR ABS (recruit) OR ABS (admission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND (ABS (medical school) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016)

The search will be conducted and completed in the first 2 months of the study.

D: Eligibility: These are essentially the same as the study selection criteria: We will exclude articles that do not discuss undergraduate medical school admissions and an aspect of the social mission.

E: Procedure for extracting data: All four members of the research team will evaluate the articles included in the review. We will randomly allocate reviewers to papers and ensure that each paper is reviewed twice independently. Each member of the team will use an online review form to evaluate each article, the results of which will be stored in an online database for tracking and analysis.

The online review form (below) was developed iteratively through discussion with members of the study team and by trialing it with exemplar studies from the pilot search.

Q	Parameter	Response
	Item ID, Title, Date – auto from database	
1	Study type	Select all that apply from list of types
2	Country	Type in
3	Urban/Rural	Select all that apply from list of types
4	Terms used	Select all that apply: social accountability, social responsibility, social contract, mission, other
5	Focus of mission or social mission	Describe
6	Aspects of admissions considered	Describe
7	Conclusions/main findings of study	Describe
8	Is the study relevant to the Project?	Yes/No
9	Impact of social mission on admissions Impact level - not evaluated, K1-K4 [[K1 participation, K2a Modification of attitudes / perceptions, K2b Modification of knowledge / skills, K3 Behavioural change – documents the transfer of learning to the workplace or willingness of learners to apply new knowledge and skills, K4a Change in organizational practice. K4b - Benefits to patient / clients]	Select all that apply from list of types
10	Impact of social mission on admissions	Description
11	Impact of admissions on social mission Impact level - not evaluated, K1-K4 [[K1 participation, K2a Modification of attitudes / perceptions, K2b Modification of knowledge / skills, K3 Behavioural change – documents the transfer of learning to the workplace or willingness of learners to apply new knowledge and skills, K4a Change in organizational practice. K4b - Benefits to patient / clients]]	Select all that apply from list of types
12	Impact of admissions on social mission	Description
13	Key points/issues for the study	Describe
14	How did your thinking change regarding admissions after reading this paper?	Describe
15	Other comments?	Describe

Reviewers

The four investigators will form the review team.

Synthesis of extracted evidence

Descriptive statistics will be generated as and when appropriate to inform a descriptive narrative of the nature of the evidence reviewed. We will then analyze the collected data using standard qualitative techniques, including inductive coding and theoretical saturation. Differences arising in coding of studies will be sorted by discussion amongst the team members until a consensus is reached regarding the discrepancy. We plan to synthesize our findings in terms of a narrative description and a logic model representing our emerging program theory about how social missions and undergraduate admissions interact and develop. *The lead for the study (SB) will meets with RHE and DLM weekly to review progress. Additional meetings will be called to address consensus issues.*

Translation into practice

At a pragmatic level the results of this study will contribute to a broader research program currently underway at the Cumming school of Medicine at the University of Calgary pursuing the quality assurance and improvement of its undergraduate admissions processes. The study has broader applicability for those schools pursuing some form of social mission, both in terms of comparing and situating their missions and improving and developing the ways their social mission intersects with their admissions policies and processes. We also seek to contribute to and influence scholarship in and around admissions and social mission in medical education. There are indications that the current effort is broadly atheoretical, heterogeneous, and limited by ambiguous terminology and conceptual constructs (Ellaway et al. 2015). We are seeking to address these issues within this study in the context of admissions and the social mission. Finally, we see this study as contributing to research and evaluation in the broader domains of social accountability and of medical school admissions.

Project timetable

Start: 1st January 2016 and Finish: 30th June 2016. Since it is a critical review of the existing literature and only the investigators are acting as reviewers we will not be submitting for ethics approval.

	January	February	March	April	May	June
Finalize protocol with BEME	■	■				
Assemble items		■	■			

Conduct reviews						
Synthesize review data						
Report & disseminate						

Conflict of interest statement

We have no commercial or other financial conflict of interest to declare with respect to this study. Two members of the team (DM and IW) are involved in undergraduate medical education admissions at the Cumming school of Medicine, University of Calgary.

Plans for updating the review

Social accountability in medical school admissions is an emerging concept and we anticipate that it will continue to develop, hopefully with the SAMSA review acting as a key part of that development. We would anticipate running the review again in 5 to 8 years' time to track this development. It is possible that a different team would undertake the follow-up study.

Changes to the Protocol

We plan strict adherence to the research protocol explained in the above paragraphs. Any changes will be reported upfront to the BEME.

References

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Appendix 1: Search String for each Database

1. PUBMED

Location of key words	Topic	Search String	Number of Articles
Title and Abstract only	Social accountability in medical school admissions	((social accountability[Title/Abstract] AND medical school[Title/Abstract]) AND admission[Title/Abstract]) AND (("1970/01/01"[PDAT] : "2015/08/31"[PDAT]) AND English[lang])	5
Title and Abstract only	Medical school admissions	(Medical School[Title/Abstract] AND Admission[Title/Abstract]) AND (("1970/01/01"[PDAT] : "2015/08/31"[PDAT]) AND English[lang])	751
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	((("social responsibility"[MeSH Terms] OR ("social"[All Fields] AND "responsibility"[All Fields]) OR "social responsibility"[All Fields] OR ("social"[All Fields] AND "accountability"[All Fields]) OR "social accountability"[All Fields]) AND ("schools, medical"[MeSH Terms] OR ("schools"[All Fields] AND "medical"[All Fields]) OR "medical schools"[All Fields] OR ("medical"[All Fields] AND "school"[All Fields]) OR "medical school"[All Fields])) AND Admission[All Fields]) AND (("1970/01/01"[PDAT] : "2015/08/31"[PDAT]) AND English[lang])	54
All fields (includes full text and anywhere in records)	Medical school admissions	("schools, medical"[MeSH Terms] OR ("schools"[All Fields] AND "medical"[All Fields]) OR "medical schools"[All Fields] OR ("medical"[All Fields] AND "school"[All Fields]) OR "medical school"[All Fields]) AND admission[All Fields] AND (("1970/01/01"[PDAT] : "2015/08/31"[PDAT]) AND English[lang])	11,431

2.   MEDLINE:

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	1. "social accountability*".m_titl. 2. "medical school*".m_titl. 3. admission.m_titl. 4. 1 and 2 and 3	0
Title only	Medical school admissions	1. "medical school*".m_titl. 2. admission.m_titl. 3. 1 and 2 4. limit 3 to (english language and yr="1970 - 2015"	189
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	1. exp Education, Medical/ or exp Social Responsibility/ or social accountability*.mp. or exp Schools, Medical/ 2. exp Education, Medical, Undergraduate/ or exp Education, Medical/ or exp Students, Medical/ or exp Curriculum/ or medical school*.mp. or exp Schools, Medical/ 3. admission*.mp. or exp School Admission Criteria/ 4. 1 and 2 and 3 5. limit 4 to (english language and yr="1970 - 2015")	3333

All fields (includes full text and anywhere in records)	Medical school admissions	1. exp Students, Medical/ or exp Education, Medical, Undergraduate/ or medical school*.mp. 2. admission*.mp. or exp School Admission Criteria/ 3. 1 and 2 4. limit 3 to (english language and yr="1970 -2015")	3902

3.   EMBASE

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	1. "social accountability*".m_titl. 2. "medical school*".m_titl. 3. "admission*".m_titl. 4. 1 and 2 and 3	0
Title only	Medical school admissions	1. "medical school*".m_titl. 2. "admission*".m_titl. 3. 1 and 2 4. limit 3 to (english language and yr="1970 -2015")	328
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	1. social accountability*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 2. admission*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 3. exp medical education/ or exp medical school/ or medical school*.mp. 4. 1 and 2 and 3 5. limit 4 to (english language and yr="1970 -2015")	9
All fields (includes full text and anywhere in records)	Medical school admissions	1. exp medical education/ or exp medical school/ or medical school*.mp. 2. admission*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 3. 1 and 2 4. limit 3 to (english language and yr="1970 -2015")	4310

4.   CINAHL

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	Social accountability AND medical school AND admission	0
Abstract only	Social accountability in medical school admissions	Social accountability AND medical school AND admission	0
Title only	Medical school admissions	Medical school AND admission	1342

Abstract only	Medical school admissions	Medical school AND admission	5580
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	TX social accountability AND TX medical school AND TX admission Limiters: Published Date: 19700101-20150731 Language: English	1723
All fields (includes full text and anywhere in records)	Medical school admissions	TX medical school AND TX admission Limiters: Published Date: 19700101-20150731 Language: English	21,930

5. Web of Science

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	TITLE: (medical school) AND TITLE: (admissions) AND TITLE: (social accountability)Timespan: 1970-2015. Indexes: SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH	0
Title only	Medical school admissions	TITLE: (medical school) AND TITLE: (admissions) Timespan: 1970-2015. Indexes: SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH	356
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	TOPIC: (medical school) AND TOPIC: (admission) AND TOPIC: (social accountability) Timespan: 1970-2015. Indexes: SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.	11
All fields (includes full text and anywhere in records)	Medical school admissions	TOPIC: (medical school) AND TOPIC: (admission) Timespan: 1970-2015. Indexes: SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH	1676

6. Eric

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	Social accountability AND medical school AND admission	0
Abstract only	Social accountability in medical school admissions	Social accountability AND medical school AND admission	0
Title only	Medical school admissions	Medical school AND admission	88
Abstract only	Medical school admissions	Medical school AND admission	438
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	TX social accountability AND TX medical school AND TX admission Limiters:	1

		Date Published: 20140101-20151031 Language: English	
All fields (includes full text and anywhere in records)	Medical school admissions	TX medical school AND TX admission Limiters: Date Published: 19700101-20151031 Language: English	605

7. Scopus

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	(TITLE (social accountability) AND TITLE (medical school) AND TITLE (admission)) AND PUBYEAR > 1969 AND PUBYEAR < 2016	0
Title only	Medical school admissions	(TITLE (medical school) AND TITLE (admission)) AND PUBYEAR > 1969 AND PUBYEAR < 2016	374
Abstract only	Social accountability in medical school admissions	(ABS (social accountability) AND ABS (medical school) AND ABS (admission)) AND PUBYEAR > 1969 AND PUBYEAR < 2016	7
Abstract only	Medical school admissions	(ABS (medical school) AND ABS (admission)) AND PUBYEAR > 1969 AND PUBYEAR < 2016	1788
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	(TITLE-ABS-KEY (**medical school**) AND TITLE-ABS-KEY (**admission**) AND TITLE-ABS-KEY (**social accountability**)) AND PUBYEAR > **1969**	18
All fields (includes full text and anywhere in records)	Medical school admissions	(ALL (medical school) AND ABS (admission)) AND PUBYEAR > 1969 AND PUBYEAR < 2016	3390

Appendix 2: Search String for each Database:

1.   PUBMED:

Location of key words	Topic	Search String	Number of Articles
Title and Abstract only	Social accountability in medical school admissions	((((admission[Title/Abstract] OR recruit[Title/Abstract]) OR select[Title/Abstract]) AND medical school[Title/Abstract]) AND ((social accountability[Title/Abstract] OR social mission[Title/Abstract]) OR social contract[Title/Abstract])) AND (("1970/01/01"[PDAT] : "2015/08/31"[PDAT]) AND English[lang])	11
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	(((((select[All Fields] OR recruit[All Fields]) OR admission[All Fields]) AND ("schools, medical"[MeSH Terms] OR ("schools"[All Fields] AND "medical"[All Fields]) OR "medical schools"[All Fields] OR ("medical"[All Fields] AND "school"[All Fields]) OR "medical school"[All Fields])) AND ((("social responsibility"[MeSH Terms] OR ("social"[All Fields] AND "responsibility"[All Fields]) OR "social responsibility"[All Fields] OR ("social"[All Fields] AND "accountability"[All Fields]) OR "social accountability"[All Fields]) OR (social[All Fields] AND ("religious missions"[MeSH Terms] OR ("religious"[All Fields] AND "missions"[All Fields]) OR "religious missions"[All Fields] OR "mission"[All Fields]))) OR (social[All Fields] AND ("contracts"[MeSH Terms] OR "contracts"[All Fields] OR "contract"[All Fields])))) AND (("1970/01/01"[PDAT] : "2015/08/31"[PDAT]) AND English[lang])	82

2.   MEDLINE:

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	1. "recruit*".m_titl. 2. "select*".m_titl. 3. "admission*".m_titl. 4. 1 or 2 or 3 5. "medical school*".m_titl. 6. "social accountability*".m_titl. 7. "social mission*".m_titl. 8. social contract.m_titl. 9. 6 or 7 or 8 10. 4 and 5 and 9	0
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	1. recruit*.mp. 2. select*.mp. 3. admission*.mp. or exp School Admission Criteria/ 4. 1 or 2 or 3 5. exp Education, Medical, Undergraduate/ or exp Students, Medical/ or medical school*.mp. or exp Schools, Medical/ 6. exp Education, Medical/ or exp Social Responsibility/ or social accountability*.mp. or exp Schools, Medical/ 7. exp Education, Medical/ or exp Schools, Medical/ or social mission*.mp. or exp Social Responsibility/ 8. exp Social Responsibility/ or social contract.mp.	4669

		9. 6 or 7 or 8 10. 4 and 5 and 9 11. limit 10 to (english language and yr="1970 -2015")	

3. EMBASE

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	1. "recruit*".m_titl. 2. "select*".m_titl. 3. "admission*".m_titl. 4. 1 or 2 or 3 5. "medical school*".m_titl. 6. "social accountability*".m_titl. 7. social contract.m_titl. 8. "social mission*".m_titl. 9. 6 or 7 or 8 10. 4 and 5 and 9	0
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	1. recruit*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 2. select*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 3. admission*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. exp medical school/ or medical school*.mp. 6. social accountability*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 7. social contract.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. social mission*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 9. 6 or 7 or 8 10. 4 and 5 and 9 11. limit 10 to (english language and yr="1970 - 2015")	27

4. CINAHL

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	[TI recruit OR TI select OR TI admission] AND [TI medical school] AND [TI social contract OR TI social responsibility OR TI social accountability]	0

Abstract only	Social accountability in medical school admissions	[AB recruit OR AB select OR AB admission] AND [AB medical school] AND [AB social contract OR AB social responsibility OR AB social accountability] Limiters: Published Date: 19700101-20151031 Language: English	2
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	[TX select OR TX recruit OR TX admission] AND [TX medical school] AND [TX social contract OR TX social responsibility OR TX social accountability] Limiters: Published Date: 19700101-20151031 Language: English	15,535

5.   Web of Science

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	[TITLE: (social contract) OR TITLE: (social responsibility) OR TITLE: (social accountability) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015] AND [**TITLE:** (medical school) *Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015]* AND [TITLE: (select) OR TITLE: (recruit) OR TITLE: (admission) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015]	0
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	[TOPIC: (social contract) OR TOPIC: (social responsibility) OR TOPIC: (social accountability) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015] AND [TOPIC**:** (medical school) *Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015]* AND [TOPIC: (select) OR TOPIC: (recruit) OR TOPIC: (admission) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH Timespan=1970-2015]	38

6.   Eric

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	[TI recruit OR TI select OR TI admission] AND [TI medical school] AND [TI social contract OR TI social responsibility OR TI social accountability]	0
Abstract only	Social accountability in medical school admissions	[AB recruit OR AB select OR AB admission] AND [AB medical school] AND [AB social contract OR AB social responsibility OR AB social accountability] Limiters: Published Date: 19700101-20151031 Language: English	4

All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	[TX select OR TX recruit OR TX admission] AND [TX medical school] AND [TX social contract OR TX social responsibility OR TX social accountability] Limiters: Published Date: 19700101-20151031 Language: English	6

7.   Scopus

Location of key words	Topic	Search String	Number of Articles
Title only	Social accountability in medical school admissions	((TITLE (social accountability) OR TITLE (social contract) OR TITLE (social mission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND ((TITLE (select) OR TITLE (recruit) OR TITLE (admission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND (TITLE (medical school) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016)	0
Abstract only	Social accountability in medical school admissions	((ABS (social accountability) OR ABS (social contract) OR ABS (social mission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND ((ABS (select) OR ABS (recruit) OR ABS (admission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND (ABS (medical school) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016)	16
All fields (includes full text and anywhere in records)	Social accountability in medical school admissions	((ALL (social accountability) OR ALL (social contract) OR ALL (social mission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND ((ALL (select) OR ALL (recruit) OR ALL (admission)) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016) AND (ALL (medical school) AND SUBJAREA (medi) AND PUBYEAR > 1969 AND PUBYEAR < 2016)	1039