Abstract
Accreditation of undergraduate medical education has been practicing worldwide in developed and developing countries. Fundamental ideas of this program is to ensure incorporation of ongoing global developments, evidence based scientific study and maintenance of minimum basic standard in education for population health and safety. WHO and WFME have been addressing for global standards in medical education and global accreditation of medical institutes for long time. Worldwide many countries have been responded to this call of global accreditation of medical colleges and medical education with their own context and experiencing benefits.

This exploratory cross sectional study has been conducted during the period of july-2014 to june-2015 to explore the opinion from key informants of medical education and views from young medical graduates. Data were collected from twenty one in-depth interviewee.

Key informants stressed the necessity of an autonomous constitutional national independent accreditation body, faculty development and teacher evaluation, basic minimum resources in all listed medical colleges.

Study recommended to accelerate the activities to establish national accreditation body for undergraduate medical education which will make way to achieve global accreditation in Bangladesh in coming future.

Key Words: Global accreditation of undergraduate medical education in Bangladesh

Introduction
Accreditation is official approval given by an authorized organization stating that required standards are achieved in an institution. The term Accreditation has been used in higher education extensively.

Undergraduate medical education in many ways is the most important part of the medical education for a country and for a physician. Accreditation of undergraduate medical education has been practicing worldwide in developed and developing countries. Fundamental ideas of this program is to ensure incorporation of ongoing global developments, evidence based scientific study and maintenance of basic standards in education for population health and safety. WHO has been addressing for global standards in medical education and global accreditation of medical institutes for long time. One incompetent health professional can harm an individual in a community but one incompetent medical institute can harm thousands in community. Worldwide many countries have been responded to this call of global accreditation of medical colleges and medical education with their own context and experiencing benefits.

Worldwide medical institutions are proliferating. All are

Methodology
This exploratory cross sectional study has been conducted during the period of july-2014 to june-2015 to explore the opinion from key informants of medical education regarding the need of global accreditation of undergraduate medical education in Bangladesh.

30 key informants were contacted by visiting their offices, email and SMS as applicable and needed. Among them 21 in-depth interview could be conducted. In-depth interview were conducted with advisor to former govt., Member of parliament, Health secretary, Add - health secretary, VC Dhaka university, VC BSMMU, President BM & DC, Director General DGHS, Director General medical services (Defence), Director medical education, Dean faculty of medicine DU, Trustee Gonoshastho, Director CME, National professor, President BMA, Secretary General BMA, President AME, Principles medical colleges, Senior faculties, Journalist.

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Necessary permission was taken from concerned authority. Participation were voluntary. Confidentiality, and anonymity of the respondents are maintained.

Data were collected from key informants with in-depth interview. An in-depth interview schedule was prepared according to the objectives of the research and to maintain consistency among interviews. With due prior permission from interviewees interviews were recorded in writing and with voice recorder in most of the cases.

In-depth interview data has been analyzed as guide line given by Pathfinder International guide for qualitative data; available in website (Boyce, Neale 2006, Halcomb, Davidson 2006). Themes were identified and categorized. Data are presented in quotation and in summary form.

Results

Summary report of in-depth interviews

After transcription, categorization and condensation summary report of opinions are as follows-

1. There is a great need of a national accreditation body to medical colleges for quality medical education, competent medical graduate and better health service in Bangladesh.

2. National accreditation body must have reflection from global standards. International help may be called upon.

3. There are some overt gaps and lapses in many medical colleges, which need correction with long and short term plans with strong commitment.

4. In this period of globalization medical colleges and undergraduate medical education of Bangladesh wuld need global accreditation in coming future.

5. Establishing a national accreditation body and planning for global accreditation are direct stimulation for development of medical colleges in Bangladesh.

6. There are shortage of quality and number of faculty specially in basic subjects. A long and short term plans for faculty selection, development and teacher evaluation are very essential.

7. There is a need of policy regarding number of medical colleges to be established and human resource development.

8. Significant number of foreign students especially from SAARC countries as well from the UK and the USA want to have medical education from Bangladesh.

9. There are many direct and indirect advantages of global accreditation. Important one is health service system in Bangladesh will be scaled up.

10. There is no major barrier to work for global accreditation. Collaboration, joint action and high power committee can overcome any obstacle to achieve global accreditation in Bangladesh.

Quotations of key informants

Conversations were compiled and transcribed verbatim as data as below-

Issue: need of national accreditation

All the key informants stated that it is very much required.

Quotations

“National QAS is doing works with some particular objectives, national accreditation body is required for further improvement of undergraduate medical education”.

“Accreditation will act as oxygen to us to make up the lapses and gaps in medical colleges. Ministry and others are aware about accreditation of Medical colleges”.

“We want uniformity of all medical colleges”.

Issue: need of global accreditation

Most (n=19) of the informants stressed the need of national accreditation first then global accreditation. Two key informants expressed that there is no need of global accreditation

Quotations

“Yes, we need both national and global accreditation. Our national accreditation will have the basic standards of international level”.

“We need more development to get international accreditation”.

“National accreditation body would need approval by regional or global organizations”.

“This is a system of capitalism and will impose brain drain from Bangladesh”. Many medical graduates are doing odd jobs in abroad”.

Issue: global standards for undergraduate medical education given by World Health Organization (WHO)/World Federation for Medical Education (WFME).

Issue: enrollment of name of Bangladesh medical colleges in WHO Directory of Medical school.

majority (n=12) of the respondents welcomed the guide line and expressed the need of tailoring of it.

Issue: expected benefits having global accreditation.

most (n=20) of the informants gave statements about many benefits.
Quotations
“There would be many direct and indirect benefits of having global accreditation in Bangladesh”.

“Medical Graduates will provide service confidently at home and in abroad, they will not do odd jobs in abroad”.

Issue: anticipated barriers to get Global Accreditation.
majority (n=16) of the key informants believed that there would no barriers, no big challenges if the work is done jointly and with ‘goodwill’.

Quotes
“Motivation and understanding might need time”.
“We need to have a service mentality. Many are busy with personal development, but national development needs to be highlighted”.

While talking about present activities of medical education key informants stated following views-

Issue: general perception about 'standards' of undergraduate medical education in Bangladesh.
majority (n=16) of the respondents stated, though some of medical colleges are doing well, but in general standards are not satisfactory in many aspects. Many medical colleges are lacking basic requirements. There are gross variation amongst government, non-government, old and new medical colleges in Bangladesh.

Quotes are as follows-
“In general we cannot say standards are good. There are wide gaps between Dhaka medical college and Pabna medical college. There is no basic uniformity amongst medical colleges”.

Issue: dissemination of mission and outcomes of medical colleges.
Majority (n=12) of the key informants stated that in new curriculum mission and outcomes of medical colleges and graduates are expressed in formal way.

Quotations
“It is practiced in informal way and BM&DC needs to stress on it and instructs on it”.

“There are some non-academic mission like social, pride, prestige, commercial in establishing a medical college”.

“In a low income country here everybody is working for self sufficiency or well off”.

“In Armed Forces Medical College (AFMC); course starts one month before government schedule to provide orientation about the course including ethics and English. Guardian are also called to know and to give opinions”.

Issue: students selection criteria
Majority of the key informants (n=17) appreciated the present qualifying marks in written admission test and stated that it is a milestone in undergraduate medical education in Bangladesh. Key informants expected to have test for attitude, aptitude, capability and desirability of candidates to carry out the very stress full and complex medical learning.

Quotations
“Only merit is considered. District quota and tribal quota are nonfunctional. Attitude, aptitude, capability and desirability are important”.

“For rural retention of doctor we are thinking new ways”.

“We have to maintain the standard of questions, and must stop the question leaking”.

“We have achieved a good admission system and will achieve everything”.

Issue: students’ support systems
Majority (n=14) of the respondents claimed that informally and inadequately students' support system is practiced. Some key informants expected the need of students' loan system and extended students' support system.

Quotation
“In the context of Bangladesh where gross national income is low; for many student it is difficult to carry on the expenses of medical education. In Dhaka medical college there are many poor students”.

“They need direct and indirect guide, supports other than organized classes”.

“There are absolute free quota for meritorious students in non-govt. medical colleges”.

Issue: teaching and learning activities.
majority (n=15) of the key informants claimed that teaching and learning activities are not satisfactory in all medical colleges.

Quotations
“Teaching must be objective based. It is not possible for students to learn everything what a teacher knows”.

“In government sector many teachers do not go to posting place. More over private practice is a major factor for it. Community based teaching has become paper work not real”.

“Evening clinical teaching, supervision of clinical teaching, bedside teaching, ethics are not practicing properly in many cases. Resources for bedside teaching are poor in many situations”.

“Only bookish knowledge is not sufficient; social science, behavioral science, mentality, ethics, doctor patient relationship, empathy, communication are very important and to be taught and learnt in medical colleges”.

“Scientific teacher student ratio is essential”.

Issue: assessment and students’ performance.
few (n=7) of the key informants claimed that in general students’ assessment is rightly measuring students’ performances though there are some lapses and gaps.

Quotations
“Assessment tools have been developed structured and organized in last many years. But practical uses of those tools in assessment are not up to the expectation”.

“Biased scoring in written and oral assessment are observed
and more in non-government medical colleges. In some cases ‘pass’ is graced by the teachers, not earned by the students’.

“There should be fifty percent marks in formative assessment”.

**Quotations**

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“There should be fifty percent marks in formative assessment”.

**Issue: teacher selection/ intake & faculty development.**

majority (n=14) key informants mentioned that faculty selection and development are not going on rightly. Most of the informants repeatedly stressed the need of CME program like, workshop, training, medical education course, seminar, research, scientific paper presentation, for all teachers. Teachers must read latest books and must not go for any obsolete question.

Quotes

“Large number of faculty are young lecturers. Students spend a lot of time with them. Lecturers need to know the art of teaching. Teachers’ teaching quality, making understood to students, dedication to teaching are important”.

“Weakness in teachers will produce weak graduates. Teacher evaluation system is needed”

“Teacher selection should follow the criteria of BUET and University. In whole world teacher selection is done by University”.

**Issue: adequacy of resources in medical colleges.**

Some (n=4) of the key informants claimed resources are adequate eve\ in the context of Bangladesh.

Quotations are as follows -

“In many places medical college is made over old small clinic in a market, no separate building for hospital”.

“Patients are scarce for bed side teaching and learning”.

“There are lack of modern instructional material, and lack of information technology for teachers and students.

**Issue: use of available resources in best possible way.**

All (n=21) the key informants commented that available resources are not used in best possible way. Many costly equipments are not used, repaired and maintained properly. Teacher distribution and ranking are biased and defective. Somewhere justice is lacking. Research and publications in clinical side are limited. There are some personal publications only.

Quotations are as follows -

“Medical colleges should be made autonomous for posting of teachers. Political factor plays a good role.”

“Research fund is low in comparison to neighboring countries”.

**Issue: monitoring, evaluation and implementation of educational program.**

Most (n=16) of the key informants expressed that in undergraduate medical education monitoring, evaluation and implementation of educational program have not been adequate nor timely.

**Quotations**

“Quality Assurance Scheme does not work regularly and does not report all facts. Reports are in paper not in sprit. Pair medical colleges are not working formally in many situations”.

“Only financial monitoring is functional”.

“Data collection system is weak, corrections and implementations are weaker”.

**Issue: administration and management of medical colleges.**

To run a medical college administration and management has a great role, emphasized by majority (n=16) of the key informants and which is not satisfactory in many medical colleges at present.

**Quotations**

“There are organized courses for management and administration”.

“Administration in many cases are not interested in educational activities. They are interested in 'result' only. Qualified staff sometimes does not get proper posting”.

**Issue: renewal and updating of educational program.**

most (n=19) of the respondents expressed that renewal and updating in educational program are neither adequate nor timely even in the context of Bangladesh.

**Quotes**

“There is need of more renewal and updating about national and international health problems, management of climate change, management of rapid urbanization, natural disaster, and mass casualties”.

Others: additional quotes are as follows -

One of the important key informants advised to quote the following statements:

“Primary and secondary education have great role in higher education In many developed countries primary and secondary education are conducted by PhD holder”.

The core of the undergraduate medical curriculum consist of the fundamental theories and practices of medicine, specifically basic bio-medical, behavioural and social sciences, general clinical skill, clinical decision skill, communication skill and medical ethics, which must be addressed by all medical institutions aiming to produce safe and quality medical graduate. These elements have an important bearing on the concept of international standards in medical education. The task of medical education is to provide health care. Though worldwide there are some difference in socio-economic, cultural, health and disease spectrum but there are many similarities in structure, process and product of medical institutes also.

Violations of standards or absence of standards in medical education are identified worldwide and such evidence are also stated by key informants of this study.

In-depth interview (IDI) result of this study highly stressed the very need of human factors like- behavioural science, social science, serving attitude ethics, clinical skill and leadership in medical education and in Bangladesh.

Sweart who worked for FIMC project in Bangladesh states doctors deliver quality health care, thus the focus should be on both the process of the undergraduate medical education and the product of the undergraduate medical education. Accreditation and quality assurance scheme of medical institute ensure quality medical graduates.

Majumder states higher authority in Bangladesh is always concerned about physicians and their service and not about the availability of standards medical education. Lack of qualified teaching staff and resources are important identified problems in undergraduate medical education of Bangladesh.

Amin, Burdick report there are challenges, opportunity and diversity in medical education in South Asia. Weak regulation, growth of medical colleges, ineffectual accreditation process, admission practice, stagnant curricula, antiquated emphasis on rote learning method, inadequate clinical exposure specially in new medical colleges, dubious assessment practice, shortage of qualified faculty, national corruption, historical past socio-political structure, economic advancement are the studied challenges in medical education in South Asia.

There are many essential factors needed to make the medical education successful; absence of those factors will lead to failure of educational program even in the presence of meritorious students.

Cueto J J, Burch V C, Adnan N A state 'Accreditation of undergraduate medical training programs: practices in nine developing countries are similar that is present in the United States'. Argentina, India, Kenya, Malaysia, Mongolia, Nigeria, Pakistan, Philippines and South Africa were the studied countries.
Since 1998 to 2012 this global standards has been prepared standards of undergraduate medical education. It is a accreditation in medical education in Bangladesh World template, ... to develop and to Bank design would be appropriate and a good guide. improve undergraduate medical education worldwide.

WFME has mentioned there are many advantages global For planning and implementation of national and global medical schools in all 6 WHO regions .

WHO and other medical educational organizations adjustment of standards. Use of WFME global standards has given guidelines for better planning and better organization for medical colleges, better teacher selection and faculty development, better students selection at admission, better student assessment in course, better utilization of available resources. Use of global standards will ensure responsibility and accountability of teachers; students; and staff. Use of global standards will save money and time to making a new standards, it's use will earn fund from donor for institution. Use of global standard will provide qualified health workforce to community, better health in a country. It will ensure patient safety, will decrease abroad treatment of patient and will save money. It will increase foreign students study in a country and many more. As this is an exploratory study with small sample size numerical result is not highlighted.

Key informants mentioned there would be many direct and indirect benefits of global accreditation in medical education in Bangladesh. Important one is, population of Bangladesh will get better health service. Patient safety will increase; complaints against doctors will decrease and less people will go abroad for treatment. This will decrease the expenses on health. Medical graduates will get value, honor and job in the world, even in the developed countries. Medical graduates from accredited institution will improve health indicators to make Bangladesh a developed country.

This study has also looked for probable barrier to implement global standards in undergraduate medical education in Bangladesh. Key informants also stressed that there is no major barrier to work for global accreditation in Bangladesh. Collaboration, joint action and high power committee can overcome any obstacle to achieving global accreditation in Bangladesh.

IMED in September 2014, states that there are 2,409 recognized and operating medical schools in 180 countries or territories listed in the International Medical Education Directory (IMED). The medical schools listed in IMED are recognized by the appropriate government agencies in the countries where the schools are located.

World Bank states that there are four identified broad factors for success in any project. They are-

- consistent commitment
- consideration underlying constraints
- flexibility in the implementation of the project,
- encouragement and support for institutional

For planning and implementation of national and global accreditation in medical education in Bangladesh World Bank design would be appropriate and a good guide.

**Conclusion**

WHO has given a definition of human Health, call for health for all. WHO and other medical educational organizations have evidences that global standards and global accreditation are essential for consistence in medical education world wide to achieve peoples' health. This study results showed there is a great need of a national accreditation are essential for
consistence in medical education world wide to achieve peoples' health. This study results showed there is a great need of a national accreditation body to medical colleges for quality medical education, national accreditation body must have reflection from global standards to produce competent and competent doctors in Bangladesh to provide desirable health service in Bangladesh.

Study recommended to accelerate the activities to establish national accreditation body for undergraduate medical education which will make way to achieve global accreditation in Bangladesh in coming future.

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