Proposal for accreditation of the Study Programme in Basic Medical Education, University of Bern

OAQ Report

October 2011
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1 Frame of reference, object and procedural steps

1.1 Frame of reference

The accreditation of study programmes leading to a Federal Diploma in Medicine is mandatory according to the Federal Law on Financial Aid to Universities of 8 October 2009 (UFG) and to the Federal Law on Medical Professions of 23 June 2006 (MedBG, Art. 23 § 1). Art. 24 § 1 MedBG defines the criteria that must be fulfilled for accreditation of study programmes in addition to the accreditation requirements according to UFG. The legally defined educational objectives are of key importance (Art. 4 MedBG, Art. 6-10 MedBG).

The quality assessment is based upon quality standards that were developed by the Deans of the five Swiss Medical faculties, in cooperation with the Swiss Center of Accreditation and Quality Assurance in Higher Education (OAQ) and the Federal Office for Public Health (FOPH). They were based on the internationally accepted "Basic Medical Education WFME Global Standards for Quality Improvement" and authorised on 11 June 2003 by the Joint Commission of the Swiss Medical Schools (SMIFK). Under the mandate of the FOPH, in 2007 the Quality standards were revised by the OAQ and adapted to the requirements of the MedBG.

This work resulted in the developments of the quality standard set "Accreditation of Study Programmes in Basic Medical Education. Quality Standards", dated February 2010, which comprises the educational objectives specified in Art. 4, 6, 7, 8 of the MedBG as well as the general quality standards for study programmes outlined in Art. 10 and 12 of the Accreditation Guidelines of the Swiss University Conference (SUC).

These procedures foresee the assessment of fulfilment of the accreditation criteria according to the MedBG as well as the fulfilment of the quality standards according to the SUC Accreditation Guidelines.

Between March 2010 and August 2012 the OAQ conducts the accreditation procedures of all the Bachelor and Master programmes in Veterinary Medicine, Human Medicine and Dental Medicine as well as Chiropractics.

The accreditation proposals to the two accrediting bodies, the SUC (UFG criteria) and the Swiss Accreditation Council (MedBG criteria) are each limited to the respective quality criteria. However, the accreditation decision according to UFG is a precondition for accreditation according to MedBG.

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1 Bundesgesetz über die Förderung der Universitäten und über die Zusammenarbeit im Hochschulbereich vom 8. Oktober 1999 (UFG), SR 414.20.
3 Die Originalstandards der World Federation of Medical Education (WFME) sind abrufbar unter www.wfme.org
The conceptual planning of the procedures as well as all accompanying instruments (quality standards, guidelines) were defined by the OAQ under the mandate of the FOPH and in cooperation with the SUC and the FOPH itself.

1.2 Object of the accreditation procedure

The object of the accreditation procedure is the full study cycle (Bachelor + Master) in Human Medicine offered at the Faculty of Medicine of the University of Bern.

The University of Bern is a full research university with 14,926 students in 2010. The Faculty of medicine is one of the 8 faculties of the University of Bern. This Faculty of Medicine offers study programmes in Human Medicine, in Dental Medicine, in Biomedical Sciences and in Biomedical Engineering for a total of almost 2,400 students.

The study programme is organised according to the Bologna Reform and includes 3 years (180 ECTS) leading to a bachelor degree (BMed) and 3 years (180 ECTS) leading to the master (MMed). The bachelor degree gives right of admission to the master programme. It is intended for the students to enter the master programme directly when the bachelor has been obtained.

In an earlier form the study programme was the object of a pilot accreditation in 1999.

In the Swiss System of Higher Education any student holding a "Matura" or an equivalent diploma gains admission into any study programme of a Swiss university. The only exception is medicine where the number of study places is limited. Most cantons have agreed to base admission on a central aptitude test. Through the bernese Law on University from 1996\(^6\), the "admission of students [...] can be exceptionally limited." Therefore, a \textit{numerus clausus} is applied to enter the BMed at the University of Bern through the test of aptitudes controlled by the CRUS each year.

Since 2010 the Faculty offers 180 study places per year in medicine. In the academic year 2010-11 the total number of students in medicine at the University of Bern was 1048.

The programme is taught by academic staff of the University of Bern and academic staff having a position at the University Hospital ("Inselspital"). The latter may be members of the Faculty of Medicine or not. According to the annual report of the University of Bern for the year 2010, 85 professors and 105 academic staff (with Habilitation) are active in the Faculty of Medicine.

1.3 Procedural steps

\begin{tabular}{ll}
23.11.2010 & Opening of the procedure \\
16.03.2011 & Approval of the expert panel by the Scientific Advisory Board of the OAQ as well as by the Swiss Accreditation Council \\
\end{tabular}

\(^6\) Gesetz vom 5. September 1996 über die Universität im Kanton Bern.
The procedure was properly conducted under all formal aspects and legal requirements.

1.4 The panel of experts

- Prof. Dr. Harry F.P. HILLEN, Peer Leader (Maastricht University, The Netherlands)
- Prof. Dr. Claire DE BURBURE DE WESEMBEEK (Université Catholique de Louvain, Belgium)
- Prof. Dr. Jacob M. TEN CATE (University of Amsterdam, The Netherlands)
- Prof. Dr. Gottfried SCHMALZ (University of Regensburg, Germany)
- Prof. Dr. Wilhelm VETTER (University of Zürich, Switzerland)
- Emma KORTEKANGAS, Student (University of Lausanne, Switzerland)

1.5 Reference documents

- Self evaluation report of the University of Bern, dated 25 March 2011
- Definitive expert report dated 28 June 2011
- Position statement of University of Bern, dated 27 June 2011
- Statement of the MEBEKO dated 28 September 2011

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7 This report is the English translation. The original German text is authoritative.
2 External Evaluation

2.1 The self-evaluation report

In the self-evaluation report of the study programmes in medicine at the Medical Faculty in Bern a description is given of the actual situation of the Faculty precisely following the nine quality areas.

The expert group noted that the self-evaluation report was more descriptive than analytical. A SWOT analysis of each of the nine quality areas was not given. Instead of this, the report ended with a concise chapter on challenges for future development. But again, the statements regarding the increase in the number of students, bachelor reform, student feedback and evaluation of the curriculum were more descriptive than self-reflective.

Having said that, the expert panel concluded that the self-evaluation report provided the necessary information basis for the site visit. In the opinion of the experts a more critical and self-reflective self-evaluation report would have added value for the faculty.

2.2 The on-site visit

The on-site visit by the experts took place between May 2\textsuperscript{nd} and May 4\textsuperscript{th}. The briefing of the expert team by the agency took place on the eve of the visit, 1\textsuperscript{st} of May.

The site visits of medicine and dentistry were combined. The 6 members of the expert panel were responsible for the evaluation of the two programmes. The expert team, supported by two OAQ scientific collaborators, had the opportunity to meet the Faculty members invited for the different meetings and to visit the clinical infrastructure of medicine and dentistry, as well as the Institute of Medical Education and the Learning Centre for bachelor students.

According to the experts, the quite intense programme of the site visit was performed smoothly and effectively. The combination of the site visit medicine and dentistry proved to be feasible and efficient. It is the opinion of the experts that the information obtained from the self-evaluation report and during the site visit allows a thorough evaluation of the compliance of the study programmes in medicine and dentistry with the predefined quality standards.

2.3 Assessment of the fulfilment of the quality standards

Based on the individual examination areas the experts have highlighted the following strengths of the unit under accreditation:

- Curriculum:

  The general practitioner's internships in year 1-4 of the programme are best practice in learning in the context and development of professionalism.

  The quality of clinical teaching directed at the practice of medicine, with emphasis on bedside teaching is a definite strength of the spiral master programme.

  Scientific methods are taught as a longitudinal learning-line directed at lifelong learning.
- Education:

Professors and academic staff are involved and interested in teaching and training of the students.

The Institute of Medical Education is a strong asset for the innovation and guidance of the educational programme.

The quality of the portal Studmed and the ICT support of e-learning are very good.

As for the weaknesses, the expert panel has underlined the following:

- Continuity of the problem-based learning (PBL) system:

  It is the conviction of the experts that PBL has essential added value for the Faculty. However, the present information and training of students and staff about PBL is obviously not sufficient for a general support and motivation by students and staff.

  - Some reform of the Bachelor programme required;
  - Low level of participation of students in the gremia of the Faculty;
  - Too few elective courses in the bachelor programme;
  - Some aspects of academic education are missing in the curriculum:

While science is a strong point of the curriculum, some aspects of academic education are missing, such as a programme of philosophy of science and medicine, history of science, cultural aspects of science, relationships of medicine and art, which could help to educate broad-minded doctors.

In order to comply with the MedBG criteria, not every single quality standard needs to be completely fulfilled. The recommendation for accreditation by the experts and the accreditation agency is the result of a global judgement taking into account evidences at the level of sub-areas of examination.

The experts concluded that all thirty-three sub-areas are fulfilled, except the three sub-areas 1.3, 5.1 and 8.4 are partially fulfilled. Taking into account the information provided by the Faculty of Medicine, the experts decided to assign recommendations in these cases.

The panel of experts recommends the accreditation of the study programmes bachelor of medicine and master of medicine at the University of Bern, without any condition. The expert panel has indicated five recommendations for the quality improvement of the study programme and for its further development.
2.4 Compliance with the legal requirements

The expert panel concludes that the medical curriculum under consideration complies with the legal requirements foreseen by Art 24 MedBG.

2.5 Position statement of the unit under accreditation on the expert report

The Medical Faculty of the University of Bern has accepted the expert report, the analysis made therein and the recommendations from the expert panel. Their comments allowed making two factual corrections in the report.

2.6 Consultation of the OAQ Scientific Advisory Board

The OAQ sent the self-evaluation report, the expert report, the comments of the unit under accreditation and the OAQ's draft report to its Scientific Advisory Board on 19.08.2011 for consultation. The Board provided comments that could be taken into account in the final report.

2.7 Consultation of the MEBEKO

The OAQ sent the self-evaluation report, the expert report, the comments of the unit under accreditation and the OAQ's draft report to the MEBEKO on 19.08.2011 for the first consultation, according to Art. 27 § 5 MedBG. The OAQ received the statement on 28. September 2011 and considered it in its final report.

3 Conclusions of the OAQ

Based on the self-evaluation reports, the expert report, the position statement of the unit under accreditation, the statement of the MEBEKO and the Scientific Advisory Board, the OAQ concludes that the Study Programme in Basic Medical Education of the University of Bern fulfils the quality standards for accreditation of the FOPH.

The recommendations formulated in the expert report are intended by the experts to contribute to the development of the quality of the study programme. The OAQ agrees with the recommendations of the experts.

3.1 OAQ’s proposal for accreditation according to UFG for the attention of the SUC

Concluding that the Study Programme in Basic Medical Education of the University of Bern fulfils the accreditation standards pursuant to art. 10 of the Accreditation Guidelines the OAQ thus proposes:

Unconditional accreditation of the Study Programme in Basic Medical Education of the University of Bern for a period of 7 years.
3.2 **OAQ's proposal for accreditation according to MedBG for the attention of the Swiss Accreditation Council**

Concluding that the Study Programme in Basic Medical Education of the University of Bern fulfils the objectives and accreditation criteria pursuant to Art. 4, 6, 7, 8 and 24 of the MedBG, the OAQ thus recommends for the attention of the Swiss Accreditation Council:

Unconditional accreditation of the Study Programme in Basic Medical Education of the University of Bern for a period of 7 years.

3.1 **Antrag des OAQ auf Akkreditierung gemäss UFG an die SUK**

Das OAQ kommt zum Schluss, dass der Studiengang in Humanmedizin die Akkreditierungsstandards gemäss Art. 10 der SUK-Richtlinien erfüllt.

Daher beantragt das OAQ: Akkreditierung ohne Auflagen des Studiengangs in Humanmedizin der Universität Bern für sieben Jahre.

3.2 **Antrag des OAQ auf Akkreditierung gemäss MedBG an den Schweizerischen Akkreditierungsrat**

Das OAQ kommt zum Schluss, dass der Studiengang in Humanmedizin der Universität Bern die Ziele und Akkreditierungskriterien gemäss Art. 4, 6, 7, 8 und 24 MedBG erfüllt.

Daher beantragt das OAQ die Akkreditierung ohne Auflagen des Studiengangs in Humanmedizin der Universität Bern für sieben Jahre.

3.1 **Proposition de l'OAQ relative à l'accréditation selon LAU adressée à la CUS**

L'OAQ certifie que la filière d'études en médecine humaine satisfait aux standards d'accréditation conformément à l'Art. 10 des directives de la CUS et propose l'accréditation sans condition de la filière d'études en médecine humaine de l’université de Bern pour 7 ans.

3.2 **Proposition de l’OAQ relative à l’accréditation selon LPMed adressée au Conseil suisse d’accréditation**

L’OAQ certifie que la filière d'études en médecine humaine satisfait aux objectifs et critères d'accréditation conformément aux Art. 4, 6, 7, 8 et 24 de la LPMéd et propose l'accréditation sans condition de la filière d'études en médecine humaine de l’université de Bern pour 7 ans.
Academic accreditation in Switzerland

Expert report

Faculty of Medicine, University of Bern

Study programme in basic medical education

Report submitted on 26/05/2011
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1 Introduction

The accreditation for programmes leading to the Federal Diploma in Medicine is mandatory according to the Federal Law on Medical Professions from 23 June 2006 (MedBG: Art. 23 Para. 1). Accordingly, the study programmes must fulfill the criteria of the Federal Law on Financial Aid to Universities from 8 October 1999 (UFG) and those of the MedBG in order to be accredited. Article 24, Para. 1 of the MedBG lists the specific criteria, which must be fulfilled for accreditation. The legally anchored educational objectives (Art. 4, Art. 6-10 MedBG) are of central importance.

The accreditation procedure examines the quality of the study programmes on the basis of pre-defined quality standards. These standards are based on quality standards developed by the deans of the five Swiss faculties of medicine in cooperation with the Center of Accreditation and Quality Assurance of the Swiss Universities (OAQ) and the Federal Office of Public Health (FOPH). They have been developed based on the internationally accepted “Basic Medical Education WFME Global Standards for Quality Improvement” and authorised on 11 June 2003 by the Joint Commission of the Swiss Medical Schools (SMIFK). In 2007 on behalf of the FOPH, the OAQ revised and adapted the conditions to the new MedBG.

Not every single quality standard must be completely fulfilled in order to qualify for accreditation based on MedBG criteria. The recommendation for accreditation by the experts and the accreditation agency, as well as the decision by the independent accreditation council (Art.47, Para. 1, MedBG) is the result of an overall judgment.

The present report reflects the assessment by the expert group that was appointed by the OAQ for this accreditation procedure. The expert group analyzed whether the study programmes in basic medical education at the University of Bern fulfill the quality standards defined for this accreditation procedure.

The judgment of the expert group is based on the self-evaluation report of the University of Bern, on various interviews carried out with all stakeholders during the on-site-visit as well as on the visits of the university medical and dental hospitals and the teaching infrastructure.

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1 www.admin.ch/ch/d/sr/8/811.11.de.pdf
3 The original standards of the World Federation of Medical Education (WFME) can be found at www.wfme.org.
2 Accreditation procedure

2.1 Presentation of the unit

The University of Bern is a full research university with 14,926 students in 2010. The Faculty of medicine is one of the 8 faculties of the University of Bern. This Faculty of Medicine offers study programmes in Human Medicine⁴, in Dental Medicine⁵ in Biomedical Sciences and in Biomedical Engineering for a total of almost 2,400 students.

This report concerns the compliance of the bachelor programme medicine and the master programme medicine with the quality standards published by OAQ and FOPH.

Since 2010 the Faculty offers 180 study places per year in medicine. A Swiss federal standardised aptitude test is required for admission to the study programme. In the academic year 2010-11 the total number of students in medicine at the University of Bern was 1048.

The study programme is organised according to the Bologna Reform and includes 3 years (180 ECTS) leading to a bachelor degree and 3 years (180 ECTS) leading to the master. The bachelor degree gives right of admission to the master programme. It is intended for the students to enter the master programme directly when the bachelor has been obtained.

The present bachelor programme was first started in the academic year 2006-07, the master programme in 2009-10.

The programme is taught by teachers of the University of Bern and teachers having a position at the University Hospital (“Inselspital”). The latter may be members of the Faculty of Medicine or not. According to the annual report of the University of Bern for the year 2010, 85 professors and 105 teachers having the status of Privatdozent (with Habilitation) are active in the Faculty of Medicine.

2.2 Self-evaluation report

In preparation for the accreditation procedure the Faculty has carried out a self-evaluation, subsequently has written a self-evaluation report (March 25, 2011). This report was sent to the OAQ and experts four weeks before the site visit, thus following the MedBG and the Accreditation Guidelines of the Swiss University Conference (SUC). According to the OAQ Guidelines for Self-Evaluation the self-evaluation report should be descriptive and analytical, including a SWOT analysis for each area of evaluation.

In the self-evaluation report of the study programmes in medicine at the Medical Faculty in Bern a description is given of the actual situation of the Faculty precisely following the nine...

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⁴ In this report Human Medicine will be indicated as medicine
⁵ In this report Dental Medicine will be indicated as dentistry
OAQ quality standards. The Faculty presented an extensive description of mission and objectives, curriculum, students, students' assessment, academic staff, educational resources, programme evaluation, governance/administration and quality assurance. A list of 58 appendices was added to give more background information or more detailed information.

The self-evaluation report was more descriptive than analytical. A SWOT analysis of each of the nine quality areas was not given. Instead of this, the report ended with a concise chapter on challenges for future development. Also in this chapter the items of increase in the number of students, bachelor reform, student feedback and evaluation of the curriculum were more descriptive than self-reflective.

A steering committee of 15 staff members wrote the different chapters of the report and a delegation of 6 students was involved in the writing process. The Faculty did not find enough time to circulate the concept of the report widely in the faculty for discussion and feedback. Time restraint due to the English translation was the main reason for this. During the site visit it appeared, however, that most, if not all, of the interview partners of the expert panel had received and read the report. The interviewed members of faculty committees, professors, teachers, students and administrative staff declared that the content of the self evaluation report was a reliable and representative document.

The expert panel concluded that the self-evaluation report provided the necessary information basis for the site visit. In the opinion of the experts a more critical and self-reflective self-evaluation report would have added value for the faculty.

Recommendation 1: Self-reflection on strengths and weaknesses of the Faculty and broad involvement of the academic and non-academic staff in the preparation of the self-evaluation report to improve the quality of the report is recommended.

2.3 Group of experts

Peer leader:

– **Prof. Dr. Harry F.P. Hillen**
  Dean emeritus Faculty of Health Medicine and Life Sciences, Maastricht University, The Netherlands

Experts:

– **Prof. Dr. Claire de Burbure de Wesembeek**
  International Relations Coordinator and Mobility Representative, Université catholique de Louvain, Belgium

– **Prof. Dr. Jacob M. ten Cate**
  Professor of Experimental Preventive Dentistry, Academic Center for Dentistry Amsterdam. Prorector, University of Amsterdam, The Netherlands
2.4 On-site visit

The group of experts performed a site visit to the Faculty during 3 days from May 2nd to May 4th, 2011. The site visit was prepared by the experts through examination of the self-evaluation report and the associated documents. A briefing session was organised the day before the site visit. During this briefing OAQ members Mr. Berchtold von Steiger and Ms. Monika Risse provided information on the accreditation procedure in Switzerland and on the guidelines for the site visit. The experts discussed the programme of the visit and defined the items which had to be addressed during the visit. These items included specific questions of the experts as a result of the analysis of the self-evaluation, clarification of organisational items and additional information on educational resources.

In accordance with the OAQ assignment the site visits of medicine and dentistry were combined. The 6 members of the expert panel were responsible for the evaluation of the two programmes. Therefore all experts attended all the interviews during the site visit. Only those visits aimed at evaluating educational infrastructure and clinical facilities were done separately for medicine and dentistry. Two experts (JC, GS) visited the ZMK building and facilities for dentistry, the other experts visited the infrastructure for medical education, including bedside teaching in the University Hospital.

During the site visit 14 sessions of each 60-70 minutes for interviews with stakeholders, academic and non-academic staff, students, alumni and with representatives of relevant external professional and societal organisations were held. Besides the visits to the clinical infrastructure of medicine and dentistry, a visit to the Institute of Medical Education and to the Learning Centre was organised. The site visit was concluded in a debriefing session. In this session, a first preliminary report of the experts was presented by the peer leader. Professor Schmalz reported specifically on the evaluation of dentistry.

The site visit was well organised. During the site visit the experts were accompanied and supported by the OAQ members. The Dean and the Dean’s office were helpful and supportive, so that the quite intense programme of the site visit could be performed smoothly and effectively. The combination of the site visit medicine and dentistry proved to be feasible and efficient.
During the site visit the experts were able to crosscheck and verify the information of the self-evaluation report. The experts acquired additional useful information by means of interviews and visits. It is the opinion of the experts that the information obtained from the self-evaluation report and during the site visit allows a thorough evaluation of the compliance of the study programmes in medicine and dentistry with the predefined quality standards.

3 Compliance with the Quality Standards

During the final expert meeting, the expert panel made an overall evaluation for each of the nine quality areas, according to the FOPH quality standards. Furthermore the experts assessed the compliance with the quality standards within each sub-area and gave recommendations for quality improvement. There appeared to be a high degree of consensus amongst the experts, so that decisions were made unanimously for all areas and sub-areas.

- The expert panel has applied the OAQ assessment system for the Standard compliance: fulfilled / partially fulfilled / not fulfilled.
- In some sub-areas, fulfilled or partially fulfilled, the expert panel has formulated recommendations. The experts found no areas where conditions had to be formulated for the accreditation.

3.1 Area 1: Mission and Objectives

3.1.1 Sub-area: Mission and Objectives

Standards

1.1.1 The faculty of medicine defines its mission and objectives and makes them known publicly. The mission statement and objectives describe the educational process. After completion of the programme, doctors have the ability to practice their profession as well as an appropriate basis for further training in any specialised branch of medicine. They are able to take responsibility for their role as doctors in the health care system.

This standard has been specifically addressed in the session with the Steering Committee, responsible for the self evaluation report, and with the Governance of University, including the Rector and Vice-Rector and with the Management of the Faculty, i.e. Dean and Vice-Deans.

The Faculty of Medicine at the University of Bern and the University Hospital ‘Inselspital’ have a longstanding tradition of practical medical education since 1805. The tradition of practical clinical education has been continued in the present Mission Statement and Objectives, as published in the ‘Fakultäre Strategie 2004-2008’, in ‘Leistungsvereinbarung Universität-Fakultät 2007-2010’ and in ‘Strategie 2012 der Universität’. The Faculty wants to teach ‘state of the art’ medicine, with emphasis on the combination of biomedical sciences and clinical practice. The Faculty strives for a close relation between scientific research and
education. The Faculty aims at the education of professional doctors, prepared for lifelong learning to serve the general public in a creative, critical and responsible way. Therefore the faculty has adopted modern teaching methods such as problem based learning (PBL) and learning directed at objectives and competencies, such as defined in the Can Meds framework and the Swiss Catalogue of Learning Objectives for Undergraduate Medical Training - June 2008 (SCLO).

After completion of the study programme, the master degree gives admission rights to the Federal Exam in Medicine or Dentistry. The Federal Exam and Diploma are prerequisites for the postgraduate training.

Comments: The Medical Faculty was characterised as a pioneer in medical education in Switzerland by some of the interviewed “outsiders”. This aspect could be more outspoken in a renewed mission statement. It is the opinion of the experts that the Faculty has the knowledge and infrastructure to resume this role as pioneer and as a national and international centre of excellence in medical education.

1.1.2 The mission statement and the objectives take into consideration social responsibility and community involvement.

The mission of the Faculty includes continuous education for persons active in the health system and in medical research. The study programme prepares for the different roles of the physician that are of importance for the society. Learning objectives directed at communication, preventive medicine, public health and professionalism are defined.

1.1.3 The mission statement and objectives are compatible with the strategic planning and the research goals.

The mission statement and objectives are in agreement with the published strategy of the University of Bern and the Faculty of Medicine. The faculty has defined research goals and clinical research areas in agreement with the mission.

Conclusions: standard 1.1.1 fulfilled
standard 1.1.2 fulfilled
standard 1.1.3 fulfilled

3.1.2 Sub-area: Participation in formulation of Mission and Objectives

Standard:

1.2.1 The mission statement and objectives of the faculty of medicine are defined by its principal stakeholders and other interested parties.

The mission statement was approved by the Faculty Body. The faculty Mission and Statement are approved and supported by the Governance of the University Bern. The Rector
expressed the appreciation of the University Bern for the current strategy of the Medical Faculty.

Conclusion: standard 1.2.1 fulfilled

3.1.3 Sub-area: Academic autonomy

Standard:

1.3.1 The faculty of medicine has a policy within which it has freedom to design the curriculum and allocate the resources necessary for its implementation.

The curriculum is designed within the legal framework of MedBG, of the Swiss Catalogue (SCLO) and the Bologna system. Guidelines of the Swiss University Conference and of the Swiss Medical Inter-Faculty Commission are respected in the curriculum design. In that sense the autonomy of the faculty is restricted, just like in all five medical schools in Switzerland. Within this given general framework the Faculty is free to design its curriculum in form and content. The most important committee, the Committee for Education, has designed a specific Bernese medical curriculum that is supported by the important stakeholders, professors and teachers in the faculty and that is approved by the University management.

The faculty has the autonomy to assign the majority of the resources for research and education, provided by the University. On top of the annual structural budget the Faculty receives a budget of 2.1 million CHF for investment in research and educational developments. The total budget is a combined budget for research and education. The Faculty has the autonomy to allocate these resources. The ‘Inselspital’ is compensated for education and research directly by the University. This compensation amounts to 97 million CHF per year. The investment of this budget in research and education is not as transparent as it should be. In the opinion of the experts it is not advisable that the Faculty and or the Dean have no direct access to and have no influence on spending this considerable part of the university budget for education and research.

Conclusion: standard 1.3.1 partially fulfilled

Recommendation 2: It is recommended that the Dean of the Faculty is made responsible for the optimal investment of the total budget for education and research paid by the University to the Faculty and to the Inselspital.

3.1.4 Sub-area: Educational outcome

Standards:
1.4.1 Based on the Swiss Catalogue of Learning Objectives for Undergraduate Medical Training and the MedBG, the faculty of medicine defines the competencies to be achieved by students at the completion of their studies, necessary for their subsequent training and their future roles in the health care system.

The study programmes are in agreement with the Swiss Catalogue (SCLO) and MedBG, especially the educational chapters 2 and 3 of the MedBG law on medical professions. Thereby the Faculty has defined the competencies of medical expert, communicator, collaborator, manager, health advocate, scholar and professional that students have to achieve at the end of their masters training.

1.4.2 Information concerning performance assessment and other data on the competence of the graduates is used for the further development of the educational programme.

Assessment of the performance of students, including the results of the students at the Federal Exam, feedback of students and teachers on tutorials, lectures and courses are analysed by the Committee for Education (Ausschuss für Lehre). These data are used for the update of the curriculum and in the design of the curriculum for the next academic year.

Conclusions: standard 1.4.1 fulfilled
standard 1.4.2 fulfilled

Overall evaluation area 1: Mission and Objectives

All standards of the sub-areas in area 1 are fulfilled with the exception of standard 1.3.1. The standard on academic autonomy is partially fulfilled. The arguments therefore are twofold. The Faculty is bound to legal regulations and external guidelines, just like other Swiss medical schools. The faculty has no or only informal influence on the investment of a relative large academic budget for research and education. In spite of this the expert panel concluded that overall the standard for area 1 is fulfilled.

Conclusion: standard area 1 fulfilled

3.2 Area 2: Study programme

This area was specifically addressed in the sessions with the Committee for Education, with student representatives, professors and teaching staff.

3.2.1 Sub-area: Curriculum models and instructional methods

Standards:

2.1.1 The faculty of medicine defines the curriculum models and instructional methods.

The bachelor programme is taught according to a hybrid model of Problem Based Learning (PBL). The methodological and educational principles of PBL are applied in case based
tutorials, clinical skills training in small groups, practical courses and electives in small groups and in the interactive learning environment of the learning centres. It is a hybrid model of PBL because the Faculty has made the choice to combine student centred small group learning with a complementary program of classical lectures. Doing so, the ratio between self-study and ‘contact hours’ (lectures, PBL-tutorials, practicals, courses) is about 50:50, typical for a hybrid PBL curriculum.

The master programme is a discipline based and practice oriented spiral curriculum. The combination of patient contacts at the bedside with discipline based clinical lectures form the backbone of the master curriculum. The programme aims at increasing complexity of learning objectives and increasing self-responsibility of the students in the spiral of the master curriculum.

The educational methods and the educational environment of the programmes are very well guided and supported by the Institute of Medical Education (IML) of the Faculty.

2.1.2 The study programme and instructional methods ensure that the students have responsibility for their own learning processes and are prepared for lifelong, self-directed learning.

In PBL-tutorials students are guided by tutors to take self-responsibility for active participation in tutor group learning as well as for self-directed study. Summative assessment and electronic self-assessment methods are available to support self-responsibility. The interactive educational environment, access to electronic libraries and interactive audiovisual learning programs enhance self-directed learning of the students and prepare for lifelong learning.

In the master phase of the programme students can develop self-responsibility under structured supervision in the clinic, according to the Dublin descriptors for the master. In year 6 of the program the students are challenged to show self-responsibility in the selection of and the performance in clinical or research electives.

Conclusions: standard 2.1.1 fulfilled
standard 2.1.2 fulfilled

3.2.2 Sub-area: Structure, Composition and duration of the study programme

Standards:

2.2.1 The faculty of medicine describes and defines the contents, extent, and sequencing of the study programme elements, including the balance between core and optional content.

The content of the bachelor programme is clearly and extensively defined in the 'Studienplan für die Bachelorstudiengänge Humanmedizin und Zahnmedizin' with appendices.

The bachelor programme is a 3-year programme with 180 credit points (ECTS). Year 1 and 2 are shared by medicine and dentistry. The programme for medicine and dentistry in year 1 and 2 is almost identical.
Year 1 of the bachelor is focussing on biological systems. The basic biomedical sciences are taught in this year.

Year 2 of the bachelor covers the learning of structures and functions of the healthy human body.

Year 3 of the bachelor medicine deals with pathophysiological mechanisms and common diseases.

The bachelor programme is organised in thematic modules in combination with longitudinal learning-lines. These longitudinal learning-lines determine the vertical integration in the programme. Examples of these vertical integrative learning lines are: scientific methodology (statistics, critical appraisal of literature, epidemiology and principles of evidence based medicine), behavioural and social sciences, complementary medicine and medical ethics.

The bachelor programme is largely designed as core program for all students; flexibility of the programme is restricted and only available in the selection of research electives for bachelor students.

The master programme is defined in the ‘Studienplan Masterstudiengang’ with a detailed and clear definition of learning goals in annexes 4 and 5.

The master programme consists of a combination of clinical rotations and clinical courses, clinical lectures, writing a master thesis and electives in research or clinical practice.

The master programme is schematically as follows:

- general introduction in the clinic (lectures and courses), based on 40 'clinical problems as starting point' (selection SCOL), 14 weeks EKP;
- clinical rotations (internal medicine, surgery, paediatrics, gynaecology/obstetrics, psychiatry, general practice, anaesthesiology) 24 weeks SK 1;
- master thesis 8 weeks;
- concluding clinical course 1 (lectures, clinical courses dermatology, ENT, ophthalmology, pathology, forensic medicine, social and preventive medicine) 14 weeks;
- elective clinical practice, research (including the mandatory clerkships of 4 weeks internal medicine and 4 weeks surgery). 28-36 weeks WSJ;
- concluding clinical course 2 (lectures, clinical courses in medicine, surgery, paediatrics, gynaecology/obstetrics, psychiatry, general medicine, radiology) 14 weeks SK 2.

2.2.2 The study programme is based on the goals of the Swiss Catalogue of Learning Objectives and the MedBG.

The study programme is based on the goals of the SCLO and the MedBG. The Faculty develops a curriculum databank for the master, to monitor the inclusion of all general and
clinical learning goals of SCLO. This is done at random for the bachelor program. The study programme in the master period is also based on professional interfaculty discussions and educational guidelines of the different disciplines in Switzerland.

2.2.3 Basic sciences and clinical sciences are integrated in the study programme as well as the interface with complementary therapies.

Especially in year 1 and 2 of the bachelor emphasis is put on the basic sciences. In this period but also in the subsequent study years there is longitudinal integration of basic sciences in the curriculum. Members of the departments of basic sciences are active teachers. Master thesis are regularly prepared and supervised in the laboratory of a basic science discipline.

Clinical sciences are integrated in the programme especially in year 3 of the bachelor and in the master. Clinical decision-making is part of the longitudinal learning line.

The 4 areas of complementary medicine (anthroposophical medicine, homeopathy, Neural-therapie and classical Chinese medicine/acupuncture) are taught in lectures and small group practicals in year 3 and 4 of the programme.

Conclusions: standard 2.2.1 fulfilled
standard 2.2.2 fulfilled
standard 2.2.3 fulfilled

3.2.3 Sub-area: Study programme management

Standards:

2.3.1 A curriculum committee has the responsibility and competence for the planning and implementation of the study programme.

The Committee for Education (Ausschuss für Lehre) is responsible for the planning and organisation of the curriculum. This committee has subcommittees for the bachelor medicine, the master medicine and the dental medicine programme. Leading Faculty members, teachers, members of IML and students are in this committee, chaired by the Vice-Dean for education. Additionally the faculty has installed Study Management for the daily implementation of the bachelor and master medicine. The Committee for Education is respected as the central organ for education and teaching in the Faculty.

2.3.2 The curriculum committee has appropriate resources for the choice and implementation of appropriate teaching and learning methods, evaluation of students, evaluation of programme, and innovations in the study programme. The administration, academic staff, students, and other stakeholders are represented in the curriculum committee.

The resources for the implementation of teaching and learning methods are allocated by the Faculty Management with the final responsibility of the Dean. This allocation is done in
cooperation with the Committee for Education. Innovations in education are prepared by the Committee for Education and are submitted to the formal voting by the faculty members via the Faculty management.

Conclusions: standard 2.3.1 fulfilled
standard 2.3.2 fulfilled

3.2.4 Sub-area: Scientific methods

Standard:

2.4.1 The faculty of medicine teaches the principles of scientific methods and evidence-based medicine, including analytical and critical thinking, throughout the entire study programme.

The scientific methods of evidence-based medicine are taught in a longitudinal programme under the auspices of the department of Social and Preventive medicine. Biostatistics, clinical epidemiology, critical appraisal of literature, principles of research and trials are covered in lectures, tutorials and courses of this vertical integrative learning line in year 1-3 of the bachelor.

In the master curriculum every student writes a master thesis. Reviews of the literature, clinical studies or laboratory experiments are selected by the students as topic for the thesis. After evaluation by a mentor the thesis is presented orally in the department concerned. Detailed guidelines for the master thesis are available electronically.

Students are trained in presentation skills during the tutorials, during clinical presentations and bedside teaching at the ward and by presenting their master thesis.

Conclusion: standard 2.4.1 fulfilled

3.2.5 Sub-area: Basic biomedical sciences

Standards:

2.5.1 The faculty of medicine identifies the contributions of the basic biomedical sciences and integrates them into the study programme.

Basic biomedical sciences are integrated in the bachelor programme. Particularly in year 1 of the bachelor the emphasis is put on the basic biomedical sciences. The spectrum of biomedical sciences needed to obtain and understand the fundamental knowledge as basis of the clinical science is taught in the curriculum. The active participation of professors and academic staff of departments of biomedical sciences ensures the contribution of basic biomedical science in the curriculum.

2.5.2 The contributions of biomedical sciences are adapted to scientific, technological, and clinical developments, as well as to the health needs of society.
The close relation of research and education in the Faculty is the best warranty for the adaptation of the curriculum to the advances and developments in biomedical and clinical sciences.

Conclusions: standard 2.5.1 fulfilled
standard 2.5.2 fulfilled

3.2.6 Sub-area: Behavioural and social sciences, medical ethics

Standards:

2.6.1 The faculty of medicine identifies the contributions of behavioural and social sciences, medical ethics, educational sciences, and the legal and economic basis of health care that enable effective communication, clinical decision-making, and ethical practices. This is integrated into the study programme.

Behavioural and social sciences are taught in the years 1-5 of the curriculum in lectures, tutorial, electives, case based discussions and seminars. Aspects of public health, socio-economic, demographic and cultural determinants of health and disease are taught in the learning line social and preventive medicine. Medical sociology and psychology are taught in year 1-3 of the bachelor integrated in the thematic modules of the curriculum. Teaching of the psychosocial aspects of cardiovascular diseases and psychosocial aspects of (abnormal) nutrition are examples of this programme. Students are trained in communication with patients during the general practice internship (year 1-4).

Medical ethics are introduced in a one-week block in year 1. During the master years 4 and 5 medical ethics and legal aspects of medicine are taught and discussed in lectures, seminars and the writing of a case report focussing on ethical and legal aspects.

2.6.2 The contributions of behavioural and social sciences, medical ethics and humanities are adapted to scientific developments in medicine, to changing demographic and cultural contexts, and to the health needs of society.

The learning items covered in the programmes of behavioural, social sciences, in medical ethics are directed at the modern developments in the patient-doctor relation and actual ethical and cultural issues in daily practice.

Conclusions: standard 2.6.1 fulfilled
standard 2.6.2 fulfilled

3.2.7 Sub-area: Clinical knowledge and skills

Standard:
2.7.1 The faculty of medicine assures that the students have patient contact appropriate to their level of education and have acquired sufficient clinical knowledge and skills, so that after graduation they can assume appropriate clinical responsibility.

The frequent and structured patient contacts in all phases of the programme are typical for this curriculum, and considered as a strong asset by both the students and the stakeholders of the faculty.

In the bachelor all students complete an internship in general practice with the same General Practitioner (GP) as supervisor and mentor. In year 1-3 students spend 8 half-days in the GP-practice, and 3 weeks during the 4th year.

Over five hundred GPs (n=530) throughout Switzerland are involved in these internships. The longitudinal GP-internships give students the opportunity to learn in the clinical context early in the curriculum, to see patients with common medical problems and to gain insight in the daily work in a general practice. The expert panel considers this educational concept as best-practice.

In year 3 of the bachelor students are trained in technical and communicational clinical skills in small group courses. These courses are organised in 17 modules of 3-5 days each. The Clinical Skills Training is supervised by experienced clinicians.

In the masters programme students spend 7 months on practical clinical work in rotations.

For their elective in year 6, students have to do a 4-week clinical internship in internal medicine, as well as in surgery. Students can spend an additional period of 7 months on clinical practice in a department or in a discipline of their preference. Many students choose to do this elective in an international setting outside Switzerland.

The teaching programme in clinical skills shows a spiral design in the increasing complexity of clinical problems and increasing self-responsibility of the students.

Conclusion: standard 2.7 fulfilled

3.2.8 Sub-area: Linkage with medical practice and the health care system

Standards:

2.8.1 An operational link between the study programme, postgraduate medical education, and the independent professional practice of medicine is assured.

The Vice-Deans for clinical medicine and for postgraduate education, the Director of education and research of the University Hospital, heads of clinical departments and GP representatives are members of the Committee for Education.

The Dean is involved in regular interfaculty meetings about the educational programmes.
At the professional level heads of clinical departments take part in national meetings regarding the guidelines for educational programmes in the different clinical disciplines.

2.8.2  *The curriculum committee uses information from the professional field, the health care system, and society to improve the study programme.*

The aforementioned members of the Committee for Education ensure the linkage to the health care system. Their feedback about the regional, national and global context of medical practice is used in the annual curriculum planning.

Conclusions:  
- standard 2.8.1 fulfilled
- standard 2.8.2 fulfilled

Overall evaluation area 2: Study Programme

The expert panel concluded that the quality standards of all sub-areas are fulfilled. The study programme has a logical design, with horizontal and vertical integration of the modules, and is based on a sound educational model.

The longitudinal GP-internship is evaluated as best practice.

Conclusion: standard area 2 fulfilled

3.3  **Area 3: Students**

This area was specifically addressed in the session with the student representatives.

3.3.1  **Sub-area: Admission policy and selection process**

Standards:

3.1.1  *The governing body and the faculty of medicine have formulated admission conditions that clearly explain the student selection process.*

The admission to the medical study is restricted to 180 students per year. Students have to pass an aptitude test and are allocated to the university by the CRUS.

The faculty has an admission officer responsible in all matters relating to students’ admission in medicine and dentistry to the 2nd year and beyond.

3.1.2  *Gender equality is guaranteed.*

The Faculty has a policy to guarantee equal chances for women and men in the Faculty. The Equal Opportunities Committee of the Medical Faculty offers consultations relating to equal
opportunities for students and staff. The Committee provides an annual report and informs the Dean with respect to gender equality.

Comment: Gender equality of the programme would be enhanced by offering the possibility of part-time education. A first step could be a part-time 6th year.

Conclusions:  standard 3.1.1 fulfilled
standard 3.1.2 fulfilled

3.3.2  Sub-area: Number of students

Standard:

3.2.1  *In all phases of the study programme, the number of students is defined and in accordance with the capacity of the faculty of medicine.*

The number of students per year has in recent years been increased to around 180. This number is determined by the restricted admission and restricted numbers of student drop-outs and re-sits. In interviews with staff and students it appeared that this number is reasonably in accordance with the capacity of the faculty. There is no waiting list for practicals nor skills lab. The University hospital and the allied teaching hospitals can afford sufficient places for clinical rotations and a sufficient number of patients willing to participate in the clinical teaching.

Conclusion:  standard 3.2 fulfilled

Comments: In several interviews there was some concern about the increase in the admissions to 200 students this year. It was the impression of the management that this number would be manageable for the master, but not for the bachelor.

3.3.3  Sub-area: Student support and counselling

Standards:

3.3.1  *The medical faculty offers support and counselling services for the students.*

The faculty has a Curriculum Coordination and Students’ Office for support and counselling of students. According to the students, this office is functioning very well and highly supportive for the students.

The Medical Faculty students’ Council offers low-semester students counselling by higher semester students.

Students with personal problems can make use of counselling offered at the Psychiatric University Polyclinic.
3.3.2 The counselling programme is based on monitoring the learning progress of the students and takes their social and personal needs into account.

Counselling is offered in study management, matters of leave and study interruption, absence due to illness or pregnancy, selection of internships, exchange programmes etc.

3.3.3 Students have access to a gender equality commission.

The Equal Opportunities Committee offers the ‘Sprechstunde für Medizinstudentinnen’ for female students.

Conclusions: standard 3.3.1 fulfilled
standard 3.3.2 fulfilled
standard 3.3.3 fulfilled

3.3.4 Sub-area: Student representation

Standards:

3.4.1 The medical faculty has a policy on the representation and appropriate participation of the students in the design, implementation, and evaluation of the study programme, as well as in other matters relevant to the students.

Students are represented in the Faculty Body with voting rights. Students are represented in all important committees of the faculty with exception of the Faculty Management.

Students participate in ad hoc commissions for the selection of professors. Students evaluate the teaching skills in a special designed teaching session presented by the candidates.

3.4.2 Student organisations are promoted.

The students are organised in the Medical Students’ Council.

The students’ influence on the design of the Faculty and the curriculum is theoretically very well regulated. In practice it is however difficult to find motivated students to participate in the gremia of the Faculty. In fact there is no representation, because elections are superfluous by lack of sufficient candidates.

Conclusions: standard 3.4.1 fulfilled
standard 3.4.2 fulfilled
standard 3.4.3 fulfilled

Overall evaluation area 3 Students standard area 3 fulfilled
3.4 Area 4: Assessment of students

3.4.1 Sub-area: Assessment methods

This sub-area was specifically addressed in the session with the students and with the Exam Committees and representatives of IML.

Standards:

4.1.1 The faculty of medicine defines and communicates the methods and criteria for the assessment of students.

Assessment, methods and criteria of assessments for the bachelor are defined in the ‘Reglement über das Studium und die Leistungskontrollen’ and in the ‘Studienplan Bachelor’. In the assessment the faculty uses a mix of summative and formative assessment methods, with emphasis on formative testing. A variety of tests is used, written multiple choice questions, structured oral practical exams, tutorial feedback, and structured practical exams (OSCE).

Recently the assessment methods in the clinical rotations have been updated. Work based assessment tool such as Mini clinical evaluation exercise (Mini-Cex) and direct observation of procedural skills (DOPS) are used and evaluated. Supervising clinicians are trained to use these instruments properly.

Assessment in the master includes written MCQ, OSCE and the grading of the master thesis.

4.1.2 The reliability and validity of the assessment methods are documented and evaluated and new assessment methods developed.

The IML has extensive experience in the evaluation of the quality of tests. The statistical methods for evaluation of reliability, generalizability and selective power of tests are used according to international standards.

Conclusions: standard 4.1.1. fulfilled
standard 4.1.2. fulfilled

3.4.2 Sub-area: Relationship between assessment and learning

Standards:

4.2.1 Assessment principles, methods and practices correspond to teaching objectives and promote learning.

The variety of test methods and the combination of formative and summative evaluation are based on the learning principles of Millers pyramid, and match the learning objectives of the Faculty. In spite of these principles, it appeared in student interviews and some interviews with teachers that learning is directed towards passing exams.
Interviewed students were not aware of any assessment of the PBL tutorials, and therefore had some doubts about the value of PBL tutorials.

The appreciation and motivation for PBL is a matter of concern for the Faculty. The Faculty Management, the Committee for education and IML are convinced of the additional values of PBL programme in the Faculty. However in many interviews teachers, students and intermediate staff members expressed their doubts about the efficiency and feasibility of PBL. The amount of PBL tutorials was mentioned as a (too) heavy educational burden for the teaching staff. The expert panel encourages the Medical Faculty to further discuss the apparent problems of their PBL efforts and to draw consequences. Faculty management and IML have to reconsider some aspects of PBL, especially the relationship between assessment and PBL. Faculty management and IML should increase the information and explanation regarding the PBL learning system in order to raise the motivation of students and staff members for active PBL participation.

4.2.2 The number and type of examinations encourage integrated and interdisciplinary learning.

The number and variety of examinations encourage integrated learning. The principle of 'good assessment drives learning' is well applied in the Faculty.

Conclusions: standard 4.2.1. fulfilled
standard 4.2.2 fulfilled

Overall evaluation area 4: Assessment of students

The Faculty and IML have elaborated a logic and sound system of assessment based on proven educational principles.

Conclusion: standard area 4 fulfilled

Recommendation 3:

- The faculty should pay more attention to the assessment of the PBL tutorials.
- More information and explanation of the PBL in order to motivate students and staff is needed.
- The Faculty could reconsider the balance in the hybrid PBL system in close cooperation with the teachers.

3.5 Area 5: Academic staff/faculty

3.5.1 Sub-area: Recruitment policy

Standards:
5.1.1 The faculty of medicine has a staff recruitment policy, which defines the academic staff required for the adequate implementation of the programme. It describes the type and composition of the academic personnel, the balance between medical and non-medical staff, as well as between full and part-time employees. Responsibilities are clearly defined and periodically examined.

The procedure and the criteria for the appointment of Full and Associate Professors are clearly defined. According to Faculty regulations Professors are appointed after a selection and on the advice of a nomination committee. Students and staff members are represented in these committees.

Heads of departments are responsible for the recruitment and selection of staff for research and education. There are no specifications for this selection. It is also the responsibility of Heads of the Departments to monitor the balance between research and education in the staff at unit level.

5.1.2 The faculty of medicine has formulated staff selection criteria, which take into account performance in science, teaching and clinical activities, as well as the demands of the mission statement of the institution, economic considerations, and further issues.

With the exception of professorships, the selection of staff is done decentrally at department or unit level. In interviews with the management of the Faculty, the heads of Departments and Staff members it became obvious that this system of staff selection worked well in practice. Maintaining the balance between education and research is primarily important for the department, and evaluated in the annual performance assessment of departments.

5.1.3 The recruitment policy for academic, administrative, and technical personnel is published.

The recruitment policy is part of the general recruitment policy of the University of Bern.

Conclusions: standard 5.1.1 partially fulfilled
standard 5.1.2 partially fulfilled
standard 5.1.3 fulfilled
Sub-area 5.1 partially fulfilled

Recommendation 4: The experts recommend to strengthen the recruitment policy of the Faculty by the formulation of a manpower plan with description of the type and composition of the academic personnel and to formulate and publish staff selection criteria.

3.5.2 Sub-area: Staff policy and development

Standards:
5.2.1 With its staff policy, the faculty of medicine strives for a balance in teaching, research, and service functions, and ensures recognition of meritorious academic activities with appropriate emphasis on both, research attainment and teaching qualifications.

Teaching skills are recognized as an important academic quality. The Faculty enhances teaching qualities of the staff by offering basic and advanced training in education and didactics. A strong tradition is settled in the 'Master of Medical Education' (MME) programme offered in the Faculty by the IML and international experts. Approximately 20 of the Faculty staff members are graduates from MME.

5.2.2 The staff policy includes training, development, and assessment of the teaching staff. It considers teacher-student ratios appropriate to the various components of the study programme, and assures that teaching staff is represented on relevant committees and bodies.

The number of teachers in the faculty is sufficient until now. It is the impression of the experts that teachers are rewarded and respected in the Faculty. Teachers are represented in the relevant committees of the Faculty.

It is important for the Faculty that many professors are actively involved in teaching and training throughout all phases of the curriculum.

5.2.3 The staff has access to a gender equality commission.

The Equal Opportunity Committee offers counselling and advice in the matters of equal opportunities.

5.2.4 The faculty of medicine supports a long-term promotion of young academic staff.

The faculty supports the ‘Habilitation’ of young talented staff members, not only in research but also in the newly created track ‘Habilitation Medical Teaching’.

The faculty has recently started the project ‘Faculty Development’ with a stepwise learning programme in medical teaching for assistant doctors and senior physicians who are members of the teaching staff.

5.2.5 The staff has access to continuing education, career development opportunities, and appropriate counselling.

Annually the performance in education and research of the academic staff is reviewed in a structured form. This assessment is the basis for career planning and additional postgraduate training. Interviewed staff members confirmed that performance in education is part of the annual assessment, and that postgraduate education is supported by the Faculty.

Conclusions: standard 5.2.1 fulfilled

standard 5.2.2 fulfilled

standard 5.2.3 fulfilled

standard 5.2.4 fulfilled
Overall Evaluation area 5: Academic staff/policy:

The Faculty management and the Heads of Departments have a common responsibility in maintaining the balance of the academic staff in teaching and research. The expert panel concluded on the basis of the written information and the interviews that both areas are rewarded and well balanced.

Conclusion: standard area 5 fulfilled

3.6 Area 6: Educational resources

3.6.1 Sub-area: Infrastructure

Standards:

6.1.1 The faculty of medicine provides an appropriate infrastructure to ensure that the study programme can be adequately implemented.

During the site visit, the experts visited the learning centres with ICT facilities for the students, the microscopy hall and dissection hall for histology and anatomy courses, the library with PBL environment (12 tutorial group rooms) and the skills lab. The learning centres, library and skills lab are in different buildings at walking distance. The overall evaluation of the infrastructure was positive. The infrastructure offers a learning environment in accordance with the PBL teaching. There are sufficient learning booths, PC-workstations and wireless access facilities to the electronic library and internet.

6.1.2 The learning environment for the students is regularly adapted to developments in medical education.

In recent years the learning facilities were regularly adapted and expanded. A new skills lab with 6 training rooms was recently built. The IML has developed several interactive programmes for e-learning.

Comments: The centralisation of all facilities in one ‘learning institute’ would be a further improvement of the learning environment of the students.

Conclusions: standard 6.1.1 fulfilled

standard 6.1.2 fulfilled

3.6.2 Sub-area: Practical clinical training resources

Standard:
6.2.1 The faculty of medicine provides the necessary resources for adequate clinical education, including a sufficient number of patients and clinical training facilities.

During the GP internships, the clinical skills lab training, the clinical rotations and during the elective year the students have sufficient contacts with patients for clinical training.

Experts have visited the skills lab, a clinical teaching session with a Standardized simulated patient, a clinical bedside teaching at the cardiothoracic department, and a supervised clinical case presentation. The evaluation of the clinical teaching facilities based on the written information, the interviews and the visits is definitely positive.

Conclusion: standard 6.2.1 fulfilled

3.6.3 Sub-area: Information Technology

Standard:

6.3.1 The faculty of medicine has a policy for the efficient use of information and communication technologies in its study programme. Teachers and students are enabled to use information and communication technology for self-learning, accessing information, managing patients and working in health care systems.

The ICT is a strong point of the Faculty. The student portal 'studmed', offers extensive information about the faculty, the study programmes, the schedules and learning goals. There is a well-developed system of media support for self-study with a library of e-learning modules.

Students complete a short course on the use of electronic literature (Pub Med), and for 3rd year students an elective on medical informatics is offered.

Conclusion: standard 6.3.1 fulfilled

3.6.4 Sub-area: Research

Standards:

6.4.1 The faculty of medicine has a policy describing the research facilities and areas of research priorities at the institution, as well as the relationship between research and teaching.

It was not the assignment of the experts to evaluate the quality of the research.

Research of the Faculty is concentrated in 6 themes: bioengineering, inflammation and host defence, cardiovascular system, clinical neuroscience, lung and respiratory system, tumour and cancer. In 2007 a total of 675 peer reviewed international papers were published by Faculty members as first or last author.

A new research building for the Department of Clinical research has been built in 2010. About 450 students and staff members are active researchers in this department.
6.4.2 The interrelationship between research and teaching is reflected in the study programme and in the current course offerings. The students are encouraged and prepared to participate in medical research and development.

Research electives and the master thesis reflect the intense relationship between research and the teaching programme. Researchers are active teachers in the curriculum. Students participate in research during the elective courses in the Bachelor.

Conclusions: standard 6.4.1 fulfilled
standard 6.4.2 fulfilled

3.6.5 Sub-area: Educational expertise

Standard:

6.5.1 The faculty of medicine includes educational expertise when planning basic medical education and developing teaching, learning and assessment methods.

The Institute for Medical Education (IML) is a strong asset of the Faculty. IML has a long tradition of expertise in medical education. IML is active in the educational committees of the Faculty. IML offers medical-didactic support for the curriculum, is involved in curriculum coordination, in development of learning media, the assessment and in teaching the teachers in the Faculty. IML offers the international Master of Medical Education.

Conclusion: standard 6.5.1 fulfilled

3.6.6 Sub-area: Cooperation

Standards:

6.6.1 The faculty of medicine has formulated a policy for cooperation with other educational institutions and the transfer of educational credit points.

International cooperation in the field of education and postgraduate training is organised by the IML. International experts in medical education are involved as visiting professor in the MME master programme.

6.6.2 Regional and international exchange of academic staff and students is facilitated by the provision of appropriate resources.

There is a limited number of students in the Erasmus exchange programme. The faculty does not intend to include non-German speaking countries in the Erasmus programme.

The majority of the master students conduct the elective year outside of Bern, in hospitals or laboratories in Switzerland and also frequently abroad

Conclusions: standard 6.6.1 fulfilled
standard 6.6.2 fulfilled

Overall evaluation area 6: Educational Resources

Overall educational resources are at a high level, in accordance with new developments in teaching. The IML is a strong point of the Faculty.

Conclusion: standard area 6 fulfilled

3.7 Area 7: Programme evaluation

3.7.1 Sub-area: Study programme evaluation

This area has been specifically addressed in the session with the Quality Assurance Unit

Standards:

7.1.1 The faculty of medicine has quality assurance mechanisms (i.e. evaluations) that monitor the study programme and student progress, and ensure that weaknesses are identified and addressed.

The faculty has a Quality Assurance Unit (QAU) responsible for quality assurance in research, clinical care and education. Within the QAU a Q-core group has regular meetings concerning quality assurance in education. During all phases of the curriculum feedback of students on the curriculum is well organised. Also student performance and feedback from tutors and teachers are evaluated by the QAU. These evaluations are integrated in the measures for the annual improvement of the curriculum.

7.1.2 Study programme evaluation includes the context of the educational process, the specific components of the study programme, and the general outcome.

There is close cooperation between IML and Q-core for the overall evaluation of the educational process. Yearly specific modules of the bachelor programme are evaluated and discussed in the Subcommittee Bachelors’ Curriculum in Medicine.

The results of the master students in the final Federal exam are monitored by the QAU and considered as indicative for the general outcome of the curriculum.

Conclusions: standard 7.1.1 fulfilled

standard 7.1.2 fulfilled

3.7.2 Sub-area: Teacher and student feedback

Standards:
7.2.1 Feedback from both teachers and students is systematically collected, analysed, and used to continually improve the study programme.

The QAU has developed a system of continuous feedback from students and teachers. In the bachelor medicine and dentistry 2-3 modules per year are evaluated by means of online questionnaires, feedback from PBL tutors is collected in weekly tutor meetings. The response rates to the questionnaires are quite high: 90-95%.

In the master a selective evaluation of all courses and lectures started in 2010. Each week 30 students are randomly selected and they evaluate all lectures of the current week. The courses of the master are evaluated at the end of the block. The clinical internships, also outside of the University hospital, are evaluated monthly. Each year 4 of the allied teaching hospitals are evaluated by a site visit.

7.2.2 Teachers and students are to be actively involved in planning the study programme evaluation and using its results for programme development.

Feedback of students and teachers are analyzed by the QAU and integrated in the planning of the following year’s curriculum.

A group of master students, the master coordinator and the Vice-Dean of the Masters Curriculum meet regularly during the semester to discuss the quality of the programme.

Conclusions: standard 7.2.1 fulfilled
                standard 7.2.2 fulfilled

3.7.3 Sub-area: Student performance

Standard:

7.3.1 Student performance is analysed in relation to the mission, objectives, and study programme of the faculty of medicine, and brought to the attention of the curriculum committee.

Student performance, drop-out rates in the bachelor, nominal bachelor graduation, duration of study and the performance of the students at the Federal exam are monitored.

The dropout rate in the bachelor is less than 10%; the pass ratio of the students at the Federal exam is high with very satisfactory rates.

Conclusion: standard 7.3.1 fulfilled

3.7.4 Sub-area: Involvement of stakeholders

Standard:
7.4.1 The processes and outcome of study programme evaluation involve the governance and administration of the faculty of medicine, academic staff and students and take into consideration feedback from additional stakeholders.

The quality assurance and competences of the QAU are defined in the “QSE Strategie der Medizinischen Fakultät”. The evaluations and activities of the QAU are reported to the Faculty Management and the Faculty staff through the website of the Faculty (unibe/content/qualitaetssicherung).

The QAU cooperates with the quality assurance office of the University, and the QAU reports regularly to the Dean.

Evaluation of the curriculum outcome is done in cooperation with external partners such as the Centre for Test Development and Diagnosis (CTD) of the University of Fribourg.

Conclusion: standard 7.4.1 fulfilled

Overall evaluation area 7: Programme Evaluation

The Quality Assurance Unit of the Faculty performs regular evaluations of the study programme, analyses the results of the evaluation and uses the results for quality assurance.

Conclusion: Standard area 7 fulfilled

3.8 Area 8: Governance and administration

3.8.1 Sub-area: Governance structures and functions

Standards:

8.1.1 Governance structures of the faculty of medicine and their functions are defined, including their relationship within the university and to the university hospital.

The Faculty has a transparent governance structure. The Faculty Body is the governing organ of the Faculty. The Faculty Board is responsible for the daily management and coordination. The Faculty Board supports the Dean in carrying out his tasks.

Specific Committees are responsible for research, education and resources. These Committees are chaired by Vice-Deans. Students are members of these Committees.

According to the Rector the cooperation with the University Management is good. The Dean has easily accessible contacts with all layers of the University Management.

The Dean is a non-voting member of the Board of the University Hospital. The chairman of the Management Board of the hospital, the medical director and the director of education and research of the ‘Inselspital’ participate in the Faculty Body. It is the opinion of the expert
panel that the cooperation between Faculty and University Hospital is functional as strategic alliance. There are, however, some items for improvement. The responsibility and influence of the Dean for the research and education in the University Hospital, and the right to allocate the hospital funds for research and education should be reconsidered.

8.1.2 The faculty of medicine has a strategic plan.

The strategy of the Faculty is defined in the ‘Leistungsvereinbarung Universität-Fakultät 2007-2011’.

8.1.3 The academic staff participates in decision-making processes concerning teaching and research.

Staff members participate in the Faculty Body, and in the Committees for Research, Education and Resources.

8.1.4 Decision-making processes, competencies, and responsibilities are communicated to all participants.

The website of the Faculty offers relevant information for students and staff. Important developments and decisions in the Faculty are also communicated by the Dean in a semi-annual information report.

Conclusions: standard 8.1.1. fulfilled
standard 8.1.2 fulfilled
standard 8.1.3 fulfilled
standard 8.1.4 fulfilled

3.8.2 Sub-area: Academic leadership

Standards:

8.2.1 The responsibilities of the academic leadership of the faculty of medicine for the medical study programme are clearly stated.

The ultimate academic leadership rests with the Dean. Vice-Deans, heads of departments and professors of the faculty are clearly involved in academic leadership.

8.2.2 The academic leadership is periodically assessed with regard to the fulfilment of the mission and objectives of the faculty of medicine.

Assessment of academic leadership is formally done by the University Management.

Within the Faculty feedback on academic leadership is part of the discussions in the Faculty Body.
The bachelor programme was reformed in 2007 and after the Bologna agreement. This year the Faculty has planned a Faculty retreat to discuss the reform of the bachelor programme and the update of PBL.

The master programme has been recently reformed in 2009/2010.

It is the opinion of the expert panel that regular updates and reforms of the educational programme are performed continuously by the academic management of the Faculty in cooperation with staff and students.

Conclusions: standard 8.2.1 fulfilled
standard 8.2.2 fulfilled

3.8.3 Sub-area: Administrative staff

Standard:

8.3.1 The faculty of medicine has sufficient administrative staff. This ensures the organisational implementation of the study programme and other activities, and guarantees efficient resource management.

After the session with senior administrative staff and based on the written information the expert panel concluded that the Faculty is well organised. The administrative staff appeared competent and devoted to the tasks in the Faculty.

Conclusion: standard 8.3.1 fulfilled

3.8.4 Sub-area: Educational budget and resource management

Standards:

8.4.1 The faculty of medicine has clear authority and responsibility for the study programme and its financing. This includes a dedicated educational budget.

The Faculty receives a combined budget for research and education. The Faculty management has only partial authority to allocate these resources. A budget of 97 million CHF is paid by the University directly to the University Hospital to compensate the costs of education and research in the ‘Inselspital’. Neither the Dean nor the Faculty have any formal influence on the investment of this substantial part of the academic budget. Also elsewhere in this report the expert panel has stated that this situation is unsatisfactory.

8.4.2 The faculty of medicine has sufficient autonomy to direct resources, including the remuneration of teaching staff, in order to achieve the overall objectives of the faculty.

The Faculty has autonomy to invest and allocate the research and education budget provided by the University directly to the Faculty. The faculty has no autonomy to direct the resources for education and research directly compensated to the University Hospital.
8.4.3 The financial sources and all conditions linked to financing are transparent, and do not hinder the autonomy of the faculty of medicine to make decisions concerning teaching and research.

The Faculty Management allocates financial resources for research and education to the departments. Within the departments heads of the department are responsible for the allocation of resources. In the interviews with academic and administrative staff it was discussed that the allocation is mainly based on educational and scientific performance.

Conclusions: standard 8.4.1 partially fulfilled
standard 8.4.2 partially fulfilled
standard 8.4.3 fulfilled
Sub-area 8.4 partially fulfilled

Recommendation 5 see below

3.8.5 Sub-area: Interactions with the health sector

Standard:

8.5.1 The medical faculty collaborates with the health and health related sectors of society and government.

At the level of education the Faculty has cooperation with the Bern School of Health and with the Universities of Fribourg and Basel.

Based on the discussion in the session with representatives of professional and cantonal organisations the expert panel concluded that the cooperation of the Faculty with the relevant organisations in the society is well appreciated.

Conclusion: standard 8.5.1 fulfilled

Overall evaluation area 8: Educational resources:

It is the opinion of the experts that quality criteria are met for the area of educational resources, with the exception of the research and educational resources allocated to the University Hospital. Therefore the panel will formulate a recommendation.

Conclusion: Standard area 8 fulfilled

Recommendation 5: The responsibility and influence of the Dean for the research and education in the University Hospital linked to the funds provided by the university, and the right to be part of the allocation process of the hospital funds provided by the university for research and education should be reconsidered.
The recommendation 5 concerns the same item as recommendation 2. This recommendation is formulated and emphasized here as a formal part of standards 8.4.1. and 8.4.2.

3.9 Area 9: Continuous renewal/quality assurance

Standard:

9.1.1 As a dynamic institution, the faculty of medicine implements procedures for the periodic reviewing and updating of its structure and functions, and rectifies documented deficiencies.

Based on the self evaluation report, the appendices of this report and the interview sessions the expert panel concluded that the Faculty has a well organised system for quality assurance of the educational programme and for quality assurance of the structure and organisation. The feedback cycle for quality assurance functions effectively. The organisation of the Q-core group is well established in the Faculty.

Conclusion: standard 9.1.1 fulfilled

4 Compliance with legal requirements

The bachelor and master programmes in medicine are compliant with the legal requirements of MedBG art. 24, para. 1 a and b.

5 Strengths, weaknesses, recommendations on quality improvement

It is the opinion of the expert panel that the Medical Faculty at the University of Bern offers medical training and education at a level that is compliant with the legal demands in Switzerland. The programme is structured according to the Bologna system and the Dublin Descriptors for academic training. The quality of the educational programme is in accordance with international standards for medical education. The quality criteria of the World Federation for Medical Education are met.

5.1 Strengths:

The programme has strong points and well-established strengths in the following fields:
- Curriculum:
  The GP internships in year 1-4 of the programme are best practice in learning in the context and development of professionalism.

  The quality of clinical teaching directed at the practice of medicine, with emphasis on bedside teaching is a definite strength of the spiral master programme.
Scientific methods are taught as a longitudinal learning-line directed at lifelong learning.

- Education:
  Professors and staff are involved and interested in teaching and training of the students.
  The Institute of Medical Education is a strong asset for the innovation and guidance of the educational programme.
  The quality of the portal Studmed and the ICT support of e-learning are very good.

5.2 Weaknesses and recommendations:

A main concern of the expert panel is about the continuity of the PBL system.

It is the conviction of the experts that PBL has essential added value for the faculty. However, the present information and training of students and staff about PBL is obviously not sufficient for a general support and motivation by students and staff. Recommendations to reconsider the full application of PBL and to repair the relation between assessment and PBL tutorials have been given in this document.

A second item for improvement is the reform of the bachelor programme. The expert panel supports the plans of the Faculty to integrate the programmes of bachelor year 2 and 3 in multidisciplinary modules with a strong integration of physiology, pathophysiology and clinical science. It even could be considered to integrate items of bachelor year 1 in this reformed programme. The H-shape of the programme (biomedical science - normal physiology - clinic) could be changed towards a Z-shape with increasing integration of these fields in a spiral bachelor programme.

The third item of concern is the low level of participation of students in the gremia of the Faculty. The panel recommends to support organisation and representation of the students. Feedback of students not only on the curriculum but also on the strategy and organisation will be beneficial for the Faculty.

There are few elective courses in the bachelor programme. It would be stimulating and student-centred when students could have more possibilities to chose courses according to their interests.

The study programme in medicine should be a scientific and academic education. Science is a strong point in this curriculum but some aspects of academic education are missing. A programme of philosophy of science and medicine, history of science, cultural aspects of science, the relationships of medicine and art will help to educate broad-minded doctors and to prepare the students optimally for their future role as academic members of the society.
6 Comprehensive list of recommendations

Recommendation 1: Self-reflection on strengths and weaknesses of the Faculty and broad involvement of the academic and non-academic staff in the preparation of the self-evaluation report to improve the quality of the report is recommended.

Recommendation 2: It is recommended that the Dean of the Faculty is made responsible for the optimal investment of the total budget for education and research paid by the University to the Faculty and to the Inselspital.

Recommendation 3: The faculty should pay more attention to the assessment of the PBL tutorials. More information and explanation of the PBL in order to motivate students and staff is needed. The Faculty could reconsider the balance in the hybrid PBL system in close cooperation with the teachers.

Recommendation 4: The experts recommend to strengthen the recruitment policy of the Faculty by the formulation of a manpower plan with description of the type and composition of the academic personnel and to formulate and publish staff selection criteria.

Recommendation 5: The responsibility and influence of the Dean for the research and education in the University Hospital linked to the funds provided by the university, and the right to be part of the allocation process of the hospital funds provided by the university for research and education should be reconsidered.

7 Recommendation on accreditation

Based on the evaluation of the FOPH quality standards for accreditation, based on the information and analysis of the self-evaluation report, and based on interviews and site visits, the panel of experts recommends the accreditation of the study programmes bachelor of medicine and master of medicine at the University of Bern, without any condition.