

Análisis sobre el impacto social del programa académico de la licenciatura en medicina del Centro Universitario del Sur de la Universidad de Guadalajara, México

Analysis of the social impact of the academic program of medical degree from Southern University Center of the University of Guadalajara, Mexico

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Resumen

Con la idea de conocer el impacto en la sociedad que ha tenido la licenciatura en medicina del Centro Universitario del Sur de la Universidad de Guadalajara², localizado en Ciudad Guzmán, Jalisco, México, se aplicó la metodología de GRANA³, que se basa en un sistema decimal de evaluación cualitativa y cuantitativa compuesto por 10 rubros o dimensiones, 100 ítems y 1 000 indicadores de segunda y tercera generación. Sus referentes son la UNESCO⁴, la OCDE⁵, el Banco Mundial⁶, la declaratoria de Bolonia⁷, entre otros. Se utiliza una plataforma informática llamada SIEVAS⁸ que facilita el llenado de la evaluación y permite la interacción entre evaluadores. Las herramientas que posee para facilitar la evaluación son: significados, contextos, referencias bibliográficas, glosario, escala decimal para calificar niveles de calidad, campos para integrar las fortalezas y las debilidades, el plan de mejora permanente, formatos para integrar las estadísticas en retrospectiva y prospectiva, disponibilidad informática para incorporar documentos probatorios y sitios web que ayudan al proceso de evaluación. También cuenta con gráficos que se construyen

automáticamente conforme se incorpora la evaluación a la plataforma. Existen 10 pasos para realizar todo el proceso de evaluación, iniciando con la evaluación interna, después con la evaluación externa y con la entrega de resultados. La evaluación interna es realizada por un comité de la institución evaluada compuesto por profesores, directivos, estudiantes, egresados y empleadores. Mientras que los evaluadores externos provienen de tres continentes, son especialistas en la disciplina a evaluar y han tenido experiencia en procesos de evaluación en su país o región de origen. La sección de evaluación del rubro uno, denominado “Impacto social de la formación”, está conformada por 10 ítems que fueron analizados para la construcción de este artículo.

Palabras clave: calidad, pertinencia, SIEVAS, GRANA, evaluación interna, evaluación externa.

Abstract

With the idea of knowing the impact on society that has had a degree in medicine from the University Center of Southern University Guadalajara², located in Ciudad Guzman, Jalisco, Mexico, the methodology GRANA³, which is based on a system it was applied decimal qualitative and quantitative evaluation consisting of 10 items or dimensions, 100 items and 1000 indicators second and third generation. Their references are UNESCO⁴, OECD⁵, the Mundial⁶ Bank, the declaration of Bolonia⁷, among others. a software platform called SIEVAS⁸ that facilitates filling of the assessment and allows interaction between evaluators used. Its tools to facilitate evaluation are: meanings, contexts, references, glossary, decimal scale to rate levels of quality, fields to integrate the strengths and weaknesses, the plan of continuous improvement, formats for integrating statistics retrospective and prospective, computer availability to include supporting documents and websites that help the evaluation process. It also features graphics that are built automatically as the platform evaluation is incorporated. There are 10 steps to make the whole evaluation process, starting with internal assessment, after the external evaluation and delivering results. The internal evaluation is conducted by a committee of the evaluated institution composed of teachers, administrators, students, graduates and employers. While external evaluators from three continents, are specialists in the discipline to evaluate and have had experience in evaluation processes in their country or region of origin. The

evaluation section of the category one called "Social impact of training", consists of 10 items that were analyzed for the construction of this article.

Key words: quality, relevance, SIEVAS, Grana, internal evaluation, external evaluation.

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Introduction

Guadalajara University is an educational institution recognized within the top 30 universities in Latin America., and is the second largest home studios around the country. Specifically, the educational program licensed medical doctor or surgeon and midwife of the university network is considered among the top 10 for quality in education at the national level; level, Local represents the first medical school in the state for its prestige, program and calidad.

The curriculum is relevant in comparison with other national and international programs, both in the name of the degree and years of study, curriculum map and the graduate profile.

Among the strengths of the educational program found that the design of the curriculum allows incorporation, from the first semesters, clinical areas, on the understanding that practice is essential in the learning process of future medical surgeon and midwife; This is achieved because the University of Guadalajara has two teaching hospitals, in addition to agreements with hospitals that allow early integration into medical practice, helping to strengthen the development of skills and competencies of students for professional practice, and thus contributing to graduate profile of the academic program that includes local, national and international vision.

These skills acquired by students, thanks to the design of the curriculum, have allowed the recognition of other universities and health institutions, and this is reflected in the acceptance of student mobility nationally and internationally.

The program LMCP University of Guadalajara has a significant presence in the state of Jalisco, because it is taught in a thematic center and four regional centers, which allows the entry of students not only of regional origin, but also national. LMCP The program has been recognized by the Ministry of Public Education (SEP) Mexico as a quality program. The graduate can obtain recognition of their studies by the Ministry of Public Education (SEP) of Mexico to perform the certification exam General Examinations for Exit Degree (EGEL), the National Evaluation Center for Higher Education, A.C. (CENEVAL), according to the legal framework of Mexico.

The University of Guadalajara, through the academic program at the University Center LMCP South (CUSUR), allows locate between nine universities that belong to the Register of Programs Academic Degree High Performance-EGEL. The publication of university scales has become an important reference in the social assessment of the performance of higher education institutions. The National Examination for Medical Residence Applicants (ENARM) 14 is a measuring instrument of knowledge of general medicine. The trend of income sustentantes University of Guadalajara is upward slightly over the years (2009-2014) and ranks second in average and number of admitted ENARM 2014, considering more than 1 000 sustentantes, placing the University of Guadalajara in a very suitable position nationally. It is important to note that both in 2014 and in 2015 the highest average at national level obtained a graduate of the LMCP PA. The program is relevant LMCP academically and responds to local, regional, national and international needs. The program has defined a coherent educational project with the institutional project, in which the objectives, the basic outlines of curriculum development goals, policies and strategies for planning and evaluation, and the system of quality assurance listed. The program is public domain. All information referred to above is integrated into the SIEVAS and was corroborated during visits and interviews conducted by external evaluators CUSUR. Internal and external evaluation of the category "Social impact of training" was developed under the following items: 1.1. Consistency between vision, mission and objectives in the genesis of training with actual results; 1.2. Participation of internal and external to the institution in planning authorities; 1.3. Relevance and competitiveness in the national and international levels; 1.4. Recognition of society to graduates for their performance; 1.5. Competitiveness of graduates to external like; 1.6. Perception of the scientific community,

specialized schools, graduates and employers; 1.7. Impact on the national and international labor market; 1.8. Perception of students, teachers and administrative staff; 1.9. Graduates enrolled in the graduate; and 1.10. Participation of graduates in improving training. They were diezpasos applied for this evaluation, starting with internal assessment, following the external evaluation of peer experts in the discipline and delivering results. We worked with GRANA methodology, and computing platform SIEVAS. The peer reviewers were experts from three continents.

Materials and methods

To make this article was necessary to analyze the processes, the procedures and the results of the evaluation to the academic program developed through the methodology GRANA.16 This model is carried out according to the following times:

Formation of Internal Evaluation Committee (IEC). It is integrated by a team composed of teachers, administrators, students, graduates and employers associated with evaluating academic program.

Assigning keys to CEI for access to the platform and evaluation system SIEVAS.

Online training and roles of SIEVAS system. The SIEVAS system has a computing platform that gives technological support to the process of internal, external evaluation and ongoing programs (PA) evaluated or to assess improvement. Their servers are located in Phoenix, Arizona, and have a vast field of storage and security for the accommodation and protection of information that is placed during the evaluation process. SIEVAS system roles are:

System Manager. You have access to the full functionality of the system, as well as being responsible for the entry corresponding to the parameter information, creating users, programs and institutions to evaluate.

Internal Evaluator. It is the one who must account for the quality of the program or institution evaluated; for it must respond to each of the items, identifying strengths, weaknesses, and improvement actions supporting documents entered information, and present statistical information in formats ready.

External Evaluator. Evaluation by external peers as a reference the results of internal evaluation.

Expert. It is to keep a record of the experience of experts in different areas of knowledge, and you can have as a reference according to topics of interest, accessing a forum that is nested by areas and centers of knowledge.

Consultant. It is a user who can view the information entered into the system, but only by way of consultation, ie, you can not write or modify information entered by those responsible for the assessments.

Decimal system quality. To facilitate the evaluation process, GRANA formed a metric for measuring quality, called VALLIN system, consisting of 10 items-size, 100 items (10 items for 1 category-dimension), 1 000 indicators second and third generation (10 indicators per item). The quality scale is decimal 0-10 (where 0 is zero and 10 is excellent quality). There are 10 processes and 100 procedures performed throughout the evaluation. Time are 100 days average for each assessment process. There are 10 tables or formats for statistical processing of the evaluation.

Evaluation model circular cyclical. The model GRANA evaluation is constantly updated on a circular and cyclical pattern, as shown in Figure 1. This model applies in turn processes improvement permanent (PMP) of the entities evaluated educational institutions, and academic programs.

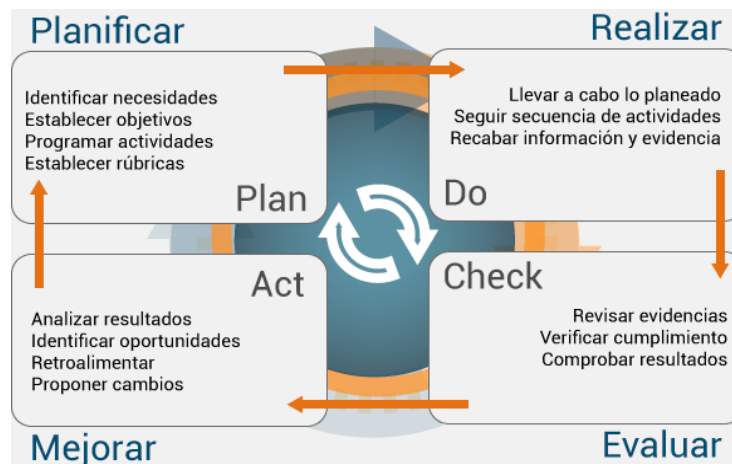


Figure 1. GRANA model, cyclical assessment and circulate.

Internal evaluation (EI). Begins with the integration and systematization of the information on the unit under assessment. The Internal Evaluation Committee (IEC) to integrate the information SIEVAS EI, through observations, opinions and generated throughout the process valuations. This assessment is that the CIS build timely and objective:

- a) Integration SWOT PA.
- b) Integration of statistical information PA.
- c) Construction of permanent improvement plan (PMP) of the PA.
- d) Integration of supporting documents and statistical data SWOT PA.

All this information is integrated to SIEVAS it, as shown in Figure 2.

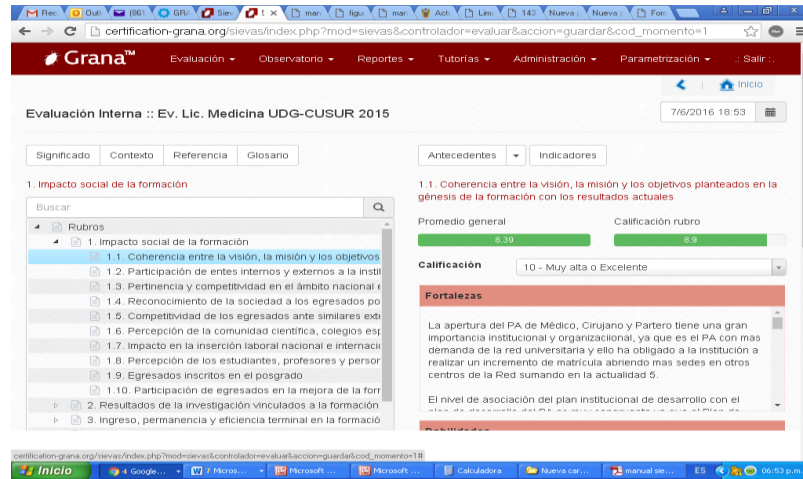


Figure 2. View of the platform SIEVAS.

Selection of external evaluators (EE). Required profiles of prominent scholars in the discipline to be assessed, with knowledge and experience in academic assessment are analyzed. The US will be from different continents.

External evaluation online. By SIEVAS platform they are carried out external evaluation processes; in it the similarities and differences of the pre-site visit to the institution are reflected analysis evaluated.

Visit to the facilities of external evaluators. To verify information and conduct interviews with the principals involved in the evaluation, a three-day visit to the facilities of the institution evaluated is performed.

Predictamen delivery of the institution. At the end of the visit is submitted a preliminary report to the institution evaluated.

Report-opinion evaluation results and continuous improvement plan. After the visit to the institution, and within a period not exceeding 30 days, external evaluators deliver the report-opinion on the evaluation process. In this report recommendations for continuous improvement of PA evaluated are described.

Meta-evaluation of the process. The process is also evaluated by the institution evaluated for the improvement of the model and the system of GRANA SIEVAS.

On the system and evaluation criteria GRANA and SIEVAS. The measurement scale is qualitative and quantitative, and refers to levels of capacity, competitiveness, relevance, coverage and innovation program or institution; in her quality values associated with the value judgment awarded to each item and quality results obtained after completion of the evaluation are set. The defined scale is as follows: 0 = None, 1 = very poor, 2 = Low, 3 = Moderately low, 4 = Little incipient 5 = Moderately incipient, 6 = Incipient, 7 = incipiently high, 8 = Moderately high 9 = high, 10 = Very high or excellent.

The SIEVAS features dynamic graphics for viewing online and in real time the level of quality with which the internal and external assessments of the PA are developing, as shown in Figure 3: the red circle in the center represents the level low quality, the central yellow circle represents the average level of quality and the last green circle represents the highest level of quality; blue section represents the strengths of the PA evaluated, while the area not covered in blue are opportunities PA.

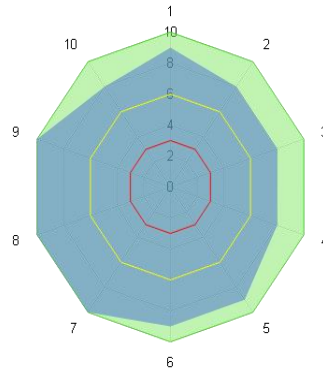


Figure 3. Graphic quality Grana.

Results

Internal analysis of CIS academic program (PA) rated.

Consistency between vision, mission and objectives in the genesis of training with actual results.

Strengths. The opening PA physician, surgeon and midwife has a large institutional and organizational importance, as is the PA with more demand of the university network and this has forced the institution to make an increase in enrollment, and open more offices in other network centers, currently totaling 5.

The level of association of institutional development plan with the PA development plan is very consistent, as the Institutional Development Plan (PDI) 17 defines the strategies, objectives and goals that must follow all PA; the program development plan (PDP) plans to meet the strategies, objectives and institutional goals, but inherent in the medical career. PDPs are modified and adapted when the POI is updated in the institution, but consider the achievements from inception to the present time, always seeking continuous improvement program in the areas of management, research, teaching and bonding,

The financial resources of the regular budget of the University ensure the development of PA attending various outreach programs, diffusion bonding, counseling and mentoring for students, teachers, administrative and managerial staff. Additionally, these resources allow some activities to promote and develop internationalization.

Both at the PDI and the PDP they prioritized the quality, relevance and prospecting, through the processes of planning and evaluation of the PA supported by a quality management system certified by ISO 9001-2008.

The PDI considers internationalization as a priority for 2030, and through it a number of objectives and goals that should cover the PDP in fulfilling its main functions is contemplated, favoring actions visioning that will allow students and scholars of PA have facilities for international mobility actions.

Based on the objectives of the strategic focus of teaching the PDI and considered in the PDP PA, recently updated and redesigned curricularly the PA in order to set it up based on the national and international context of the skills that require doctors in 2030.

For the development and evaluation of medical PDP they were considered various sectors of society, such as schools and medical associations and hospital directors and health sector leaders enseñanza.18

The PDI, the Plan Development Center (PDC) and the PDP provide for transverse and horizontal axes of research, teaching, extension and mentoring as activities that support and impact the development of relevant PA.

Weaknesses. There is no active participation of the sectors of society in the elaboration of the development plan of the PA.

Improvement plan. Include sectors of society linked to the medical area, such as professional associations, medical associations, hospital directors and heads of education in the development of PDP PA.

Rating: 10 Very high or excellent

Participation of internal and external entities to the institution in planning

Strengths. The University of Guadalajara constantly develops training activities and refresher courses for personnel that integrates all levels in order to strengthen capacities to enable it to effectively fulfill its functions and activities. As part of this process, and within the institutional training program and update, the Diploma in Educational Management, aimed at coordinators of undergraduate university network was designed. The Diploma offered undergraduate coordinators and updating training elements for the relevant

management and provided tools to strengthen the management plan design of educational programs; It offered formative elements that may enhance the academic aspects of undergraduate programs, improve quality and contribute to meeting the objectives and institutional goals. In addition, during the Diploma was counted with the participation of local, national and international teachers who supported to fulfill the objectives.

Weaknesses

The internationalization of graduates is minimal.

Improvement plan. It arises every 10 years to review the curriculum, and this review aims to compare and match the PA with similar worldwide.

Rating: 9-High

Relevance and competitiveness in the national and international level

Strengths. The University of Guadalajara, along with teaching hospitals, conducts and organizes various academic and congresses of international stature that allow cooperation and competitiveness in the national and international events.

Graduates of the academic program surgeon and obstetrician at the University of Guadalajara doctor have stood out for their professional skills, which has led to positions in management positions, such as health secretaries, chief residents, hospital directors, among others and even in the profession they are outstandingly outside the country.

The program surgeon and midwife is recognized by the standard high-performance CENEVAL.

Weaknesses. Insufficient dissemination of the University and the educational program internationally. In Latin America there is already a level based recognition of the academic program, but lack achieve that recognition is consolidated in North America and other continents.

Improvement plan. Generate dissemination strategies of the university and the educational program internationally, primarily in North America and other continents.

Rating: 10 Very high or excellent.

Recognition of society to graduates for their performance

Strengths. PA graduates surgeon and midwife physician who teaches at the University Center of the South (CUSUR) 13 have had very good acceptance and recognition in their activities because of their comprehensive training and his great academic performance.

In national assessments National Examination of Medical Residences (ENARM) 14 in the last 14 years, the results obtained, the CUSUR is located within the first 30 places, and in particular, in 2014 it peaked at 27 ° with an average of 62.56 points.

In addition, graduates have a high percentage of grade in the General Exit Exam Degree (EGEL) applied by the National Evaluation Center for Higher Education CENEVAL¹², where a significant number of graduates has achieved outstanding results, most by above the national average.

A level CUSUR there have been four follow-up studies of graduates in the last 7 years, which is included in the career of doctor, surgeon and midwife, only in the study samples of various educational programs where results are expressing they made good performance in national health institutions.

We present the students who are pursuing graduate studies and trainings in national institutions in the United States of America, Brazil, Austria and Spain.

Weaknesses

You do not have specific follow-up studies graduates of the educational program that considers 100% of the graduates.

It does not have a permanent and systematized of the awards received by graduates of medical educational program registration.

It does not have a strategic plan to strengthen the social recognition to graduate from the national and international dimensions.

Improvement plan. a project tracking specific medical graduates, surgeon and midwife which includes 100% of graduates educational program is developed.

It has been implemented and systematized a permanent record of the awards earned by graduates of medical educational program at local, regional, national and international levels to achieve in the first year 30% of those who graduated from 2001 to 2015.

Mechanisms have been implemented to develop a strategic plan that will consolidate the social recognition to graduate from the national and international dimensions.

Rating: 9-High

Competitiveness of graduates to external Similar

Strengths. CENEVAL results show that CUSUR graduates have outstanding performance, 70% obtained excellent results, outstanding and satisfying, which places graduates of PE in the margin of the best medical schools in the country.

One of the external parameters that assesses the competitiveness of graduates of CUSUR is the National Examination of Medical Residences (ENARM), 14 to position the PE within the first 30 locations with average finish of 62.5 points.

Weaknesses. You do not have a systematization of data updating graduates, so contact them to second or third year of their graduation is lost.

You do not have a systematic strengthen local, national or international competitiveness of the graduate plan.

Improvement plan. Make a strategic plan that allows us to meet the performance and recognition of our graduates at national and international level.

Rating: 8-Mildly high.

Perception of the scientific community, specialized schools, graduates and employers

Strengths. The perception of the scientific community, alumni and employers to the University of Guadalajara is very good, and is a product of high academic level with graduating students.

The skills you develop through the curriculum make them competent professionals in the workplace. This is reflected, on the one hand, the number of doctors entering a medical specialty and / or integrate quickly into the labor force. The prestige of the University of Guadalajara and a surgeon and midwife education program is backed by over 100 years, and positions the university as the second most important country and the educational program within the first eight of better quality.

Weaknesses.

Little dissemination of the achievements of graduates; on the other hand, they are insufficient outreach programs and dissemination, as well as agreements with employers.

Improvement plan. Create a permanent extension and dissemination program for the educational program of the network; labor camps for graduates manage the network; studies of opinion and perception of the own University of Guadalajara, focused on the educational program surgeon and midwife

Rating: 10 Very high or excellent.

Impact on the national and international labor market

Strengths

Inserting the workforce by graduates of the University of Guadalajara is high due to the academic level career as a surgeon and midwife education program as it is designed to develop knowledge and skills that make our graduates are competent in the workplace, which is reflected in the number of students who gain access to a medical specialty, and greater opportunities for integration in the workplace, whether public or private.

The University of Guadalajara has teaching hospitals and agreements with hospitals, both public and private, for the conduct of clinical, internship and social service cycles, allowing the time of discharge are sources of employment for our students, both locally and nationally, who hold positions in surgical, medical directives and administrative areas of health areas.

Moreover, our graduates are inserted in work activities that include teaching and research, and work in positions such as teachers, principals, rectors, and so on.

Actions such as the recent changes have been made to the curriculum in line with international trends in medical training, which will graduate more capable and prepared for competition in the workplace physicians, not only nationally, but internationally.

Weaknesses

There is no strategic plan objective, concrete, measurable and action to strengthen the employability of graduates from the PA.

A monitoring program graduates suitable for the PA to allow us to identify the inclusion of all our graduates at local, national and international level and allow feedback on the PA in this area is missing.

Improvement plan

The strategic objective, concrete, measurable and action plan strengthens the employment of graduates of PA and identifies strategies and take actions to strengthen the employability of our graduates at local, national and international levels.

The monitoring program suitable for the PA graduates can identify the inclusion of all our graduates at local, national and international levels.

Rating: 9-High

Perception of students, faculty and staff

Strengths. The results of the survey applied to graduation of students show a favorable perception of graduates in relation to the quality and relevance of the educational program in the local context.

In relation to the international context, few students who perform professional or academic stays abroad; however, the few who have done you have an excellent perception of the performance of graduates.

Evidence of adequate perception of the quality of PE is the participation of students from various states who apply to study the career of doctor, surgeon and midwife in the CUSUR; in several of these cases, applicants are admitted and are studying satisfactorily.

Weaknesses. Not enough evaluation mechanisms to measure perception and relevance of PE from the opinion that emit students and teachers at local, national or international level are applied.

Improvement plan. A strategic plan that allows permanently gauge opinion on the quality and relevance of the academic program from the opinion issued by the 70% of students, teachers, administrators and administrative services to local, national and international level is developed.

Rating: 8-Mildly high.

Graduates enrolled in the graduate

Strengths. The vast majority of graduates of the University Center South aspires to pursue graduate studies at the end of the degree, for example, a specialization in medical and surgical branches, so enroll in the National Examination of Medical Residences (ENARM) since being accepted admitted to hospitals in the National Health System as fellows whose incomes allow them sustenance during their preparation and at the end of his graduate hired by these institutions or performing their exercise in the private sector.

There is a comparative analysis with national universities in the last 14 years, which shows that the alumni of the University Center of the South that have made the ENARM examination have been within the top 30 of 94 participating universities in 2014, with an average of 62.56 points.

With regard to graduate through ENARM it is admitted 31.56% of applicants on average over the last 14 years.

Another percentage of students performed postgraduate masters and doctorate at the University of Guadalajara, private educational institutions and universities in other countries.

It has alumni with relevant activities in graduate school, as well as relevant research activities and research publications.

Weaknesses. You do not have systematic mechanisms to meet the quantitative and qualitative ingress and egress of graduate outcomes, and research or publications of graduates enrolled in graduate programs.

You do not have registered patents or participation in co-authorship or copyright graduate student level graduates.

Improvement plan. They have been implemented systematized mechanisms to meet the quantitative and qualitative ingress and egress at the graduate level results as well as in the area of research and publications of graduates enrolled in graduate programs.

An institutional policy of support for the creation of patents and motivation for participation in co-authorship or copyright graduate student develops.

Calification: 8-Mildly high.

Participation of graduates in improving training

Strengths. The graduates of the educational program surgeon and obstetrician at the University of Guadalajara have a constant insertion colleges and medical associations; much of specialists graduates of our educational program has an active participation as members of professional associations, held executive positions in these bodies at local and national levels, which are a reference for consultation in academia and health.

Much of graduates participating in schools; also they act as teachers of the University of Guadalajara and are members of the Curricular Advisory Committee, which develops strategies for updating the study program surgeon and midwife, being then graduates who, according to his professional experience, teaching and degrees (specialization, masters and doctorate), generate proposals for improving the program.

Moreover, at the University of Guadalajara it has several institutes and research centers in different health disciplines where there is great participation of our graduates with exemplary academic standards, Such participation is promoted from the undergraduate level with the incorporation early research to subsequently participate in these activities once they graduate.

Weaknesses. It does not have an adequate monitoring program graduates in the university network that allows more precisely identify the participation of our graduates in professional colleges.

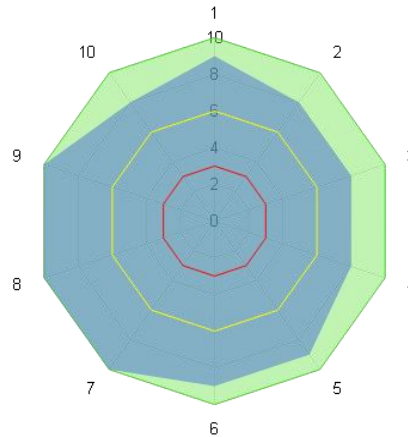
Improvement plan

Generate adequate monitoring program graduates to identify the participation of all our graduates in professional colleges.

Rating: 8-Mildly high.

Graph level in the quality of the academic program evaluated

-The graph 1 shows that the assessment of external evaluators is considered the social impact of evaluated academic program. The inner circle of the color red is considered incipient level of quality, average quality yellow line and green as high quality.



Graph 1.

1. Consistency between vision, mission and objectives in the genesis of training with actual results, 2. Participation of internal and external to the institution in planning entities, 3. Relevance and competitiveness in the national and international level 4. Recognition of society to graduates for their performance, 5. Competitiveness of graduates to external similar, 6. Perception of the scientific community, specialized schools, graduates and employers, 7. Impact on national and international labor market, 8. Perceptions of students, faculty and staff, 9. graduates enrolled in graduate school, graduates 10. Participation in improving training.

EEC External analysis of the academic program (PA) evaluated

Consistency between vision, mission and objectives in the genesis of training with actual results

Strengths

The institution has a clearly articulated mission and vision; these correspond to the nature of the institution and the public domain. This mission is expressed in the objectives, in academic and administrative processes and achievements of each program. Its institutional commitment to quality and universal higher education concerning explained.

It also reflects the integral formation of students as conscious, competent professionally, morally upright and projected towards continuous human, professional and social improvement, under the auspices of optimal scientific and technological preparation. It is linking and ilación between 2014-2030 Institutional Development Plan (PDI 2014-2030) and the Development Plan of the University Center of Health Sciences 2014-2030 (PDCUCS 2014-2030), which set the tone for Clearly the development of academic programs (PA) with the support of Plan development programs (PDP), including the degree of doctor and midwife surgeon (LMCP) is. It is certainly true that the PDP12 strength amend and adapt each time the PDI is updated and, moreover, is made taking into account the period elapsed accumulated experiences. Thus, consistency between the various elements covered by both plans, and with an upward development in quality and relevance is maintained.

Weaknesses

During visits to the University Center, and interviews with internal evaluators (EI), they reported that among the sectors of society that have participated in the development of PDP PA of LMCP of the University of Guadalajara, are teachers , graduates, employers, professionals, administrators, students and colleges users; however, they argue that so far has not been as active participation of society in the elaboration of the PDP. In interviews they were asked which sectors did not participate, and reported that it was a subjective apperception, and they felt should engage more people in the social sector, not to mention who else.

Improvement plan

It coincides with internal evaluators (EI) and the University of Guadalajara is clearly defined in the Institutional Development Plan (PDI) 2014-2030 and the Development Plan 2014-2030 CUSUR objectives and strategies to guide indicators efforts and resources, and thus account for the progress and setbacks for meeting projected goals, especially those related to the theme of teaching and learning.

On the other hand, greater participation of different sectors of society linked to the health area is recommended (in quantity), as well as posed by internal evaluators (EI), since the PA of LMCP is the most demand on the university network.

Rating: 10 Very high or excellent

Participation of internal and external entities to the institution in planning

Strengths

At the University of Guadalajara the PDI and PDCU plans that give functionality to the university network and affect the PA of LMCP, are channeled to the ongoing development of actions relating to the planning, programming, budget allocation and evaluation, grounded in an institutional formal system under continuous observation. In the process of updating the 2014-2030 PDI broad participation of the university community and society, which was conducted through a methodology open, a situation that was corroborated during visits to CUCS was evident.

In this regard, they referred the EI that the institution includes in its PDI13 training its staff in the interests of relevant management, enabling them to contribute to the fulfillment of the objectives and institutional goals, in strengthening the design of the management plan educational programs.

Weaknesses. They raised internal evaluators (EI) during interviews, the low internationalization of graduates; however, it is important to start with strengthening international teacher and student of PA network LMCP medicine.

Improvement plan. They raised the EI review the curriculum of the LMCP every 10 years, a situation in which we agree, considering also that the improvement plan must be primarily aimed at increasing the involvement of external experts in planning and evaluation of undergraduate programs , such as the LMCP.

Rating: 9-High

Relevance and competitiveness in the national and international level

Strengths. The program LMCP University of Guadalajara has a strong presence in the state of Jalisco, because it is taught in a thematic center and four regional centers, allowing the entry of students not only of regional origin, but also nationally. LMCP The program has been recognized by the Ministry of Public Education (SEP) of Mexico as a quality program. The graduate can obtain recognition of their studies by the SEP to perform the certification exam EGEL-CENEVAL10, according to the legal framework of Mexico. The University of Guadalajara, through the academic program LMCP in CUCS, allows locate between 9 universities that belong to the Register of Programs Academic Degree High Performance-EGEL. The publication of university scales has become an important reference in the social assessment of the performance of higher education institutions. The National Examination for Medical Residence Applicants (ENARM) 11 is a measuring instrument of knowledge of general medicine. The trend of income sustentantes University of Guadalajara is upward slightly over the years (2009-2014), and ranks second in average and number of admitted ENARM 2014, considering more than 1 000 sustentantes, placing the University of Guadalajara in a very suitable position nationally. It is important to note that both in 2014 and in 2015 the highest average at national level obtained a graduate of the LMCP PA University of Guadalajara. The program is relevant LMCP14 academically and responds to local, regional, national and international needs. The program has defined a coherent educational project with the institutional project, in which the objectives, the basic outlines of curriculum development goals, policies and strategies for planning and evaluation system and quality assurance listed. The program is public domain. All information referred to above was corroborated during visits and interviews.

On the other hand, it is important to note that Mexico has ratified and acceded to the so-called Hague Apostille (an agreement for the elimination of the requirement of

"Legalization for Foreign Public Documents or agreement of The Hague") 15 which recognizes the legal effectiveness a public document issued in another party to that agreement, among which are securities issued by governmental or private entities, as it turns certification of LMCP country. The process of apostillaje is to place on the public document itself an apostille certifying internationally the authenticity of the signature of public documents issued in each member country, recognizing therefore the authenticity of the documents have been issued in other countries and carry apostille, 14 allowing recognize the training obtained in an area of knowledge and therefore work professionally to an individual in another signatory country.

Weaknesses. EI made reference to the poor growth of international mobility of students and academics and to the need for expansion of academic research bodies internationally. However, during the visit and interviews with students and teachers it could know that this year, more than 120 foreign students made academic activity in the PA of LMCP network medicine, and fewer students the University of Guadalajara made international mobility and subsequently requested the recognition of activities in the various international academic venues.

Improvement plan. The weaknesses can be overcome through the objectives in the internationalization of the PDI 2014-2030, which considers the consolidation of internationalization in the substantive functions of the University of Guadalajara. In addition, it is recommended to maintain and increase international mobility of students and academics, as well as raises the PDI.

Rating: 10 Very high or excellent.

Recognition of society to graduates for their performance

Strengths. It is a center with recognized merit through assessments with quality criteria in its graduates, located in the first 30 places in the ENARM, and place 27 in 2014. High performance evaluation rating CENEVAL for high scores of graduates in the last two years. Two creditors prize winners and 2014 and more than 60 students with satisfactory performance. Excellence Awards EGEL and Pfizer one of its graduates; awards at conferences.

Weaknesses. There are no studies on the impact of its graduates in society and institutions which carry out their work after graduates.

Improvement plan. A strategic plan, with short- and medium-term, it would be plausible to evaluate this item, which track its graduates not only in the workplace, but in the area of research is done.

Rating: 10 Very high or excellent.

Competitiveness of graduates to external Similar

Strengths. As an indicator of quality, national accreditation this year and the previous three years see its graduates with skills for performance. Another quality criterion is the fact that it belongs to Padron CENEVAL High Performance, for their high scores on college graduates in the past two years. In 2015, 188 sustentantes who presented the XXXIX Aspiring National Examination for Medical Residence 14 60 were selected (31.92%) with an overall average of 62.557 medical knowledge. The number of students tested by EGEL has increased from 290 in 2009 to 985 in 2014 (339.55% increase in 5 years, more than three times).

Weaknesses. They do not have data systematization and monitoring graduates, for comparison with the rest of the country and internationally (their labor, academic and research performance, the latter through its publications).

Improvement plan

It would be interesting to systematize the data to track graduates. a strategic plan that allows tracking of graduates and their labor, academic and research performance is proposed, the latter through its publications.

Rating: 10 Very high or excellent.

Perception of the scientific community, specialized schools, graduates and employers

Strengths. Graduates of the program LMCP of the university network of the University of Guadalajara are renowned for the quality of training they receive, and are noted for their performance in the discipline, a condition that was evident in the perception of employers,

which it was corroborated by the graduates during visits and interviews. Furthermore, it is important to refer back to ENARM where graduates of the University took second on average and number of admissions in 2014, considering more than 1 000 sustentantes, which represents national recognition. It is important to note that an interesting link between graduates and academic institution, which is reflected in the legal framework remains the same.

Weaknesses. We agree with those reported by EI, to perform monitoring so graduates know their achievements, and to establish national agreements that facilitate the inclusion of a number of graduates in the labor field.

Improvement plan. We believe that the EI strategies are adequate to overcome weaknesses, including the program to have a more systematic monitoring of graduates is maintaining more direct contact with employers and professional associations, and so on.

Rating: 9-High

Impact on the national and international labor market

Strengths. In recent research conducted by the University of Guadalajara employers in the field of public and private institutions of health, it was obtained as a result that 100% thought highly of the quality and relevance that presents the educational program at LMCP; equal percentage favorably considered work performance observed in graduates LMCP and considered as very important that graduates have the capacity to identify and solve problems, technical knowledge of the discipline, ethics, values, good doctor-patient relationship and ability to perform medical procedures. The above mentioned supports the fact why the insertion into the labor force by graduates of the University of Guadalajara in LMCP is alta.¹⁹ addition, graduates of this degree gets access to perform a medical specialty in a significant percentage, which opens further opportunity to enter workplaces, whether public or private. It is important to note that all the above mentioned was corroborated during visits and interviews. Another field of work which has access graduated from the LCMP is academic, including teaching and research.

Weaknesses. The weaknesses reported by the EI, that there is a weighty and actions to strengthen the employability of graduates Pa LMCP medical network shared strategic plan. Additionally, the absence of systematic PA graduates of LMCP to identify the level of

integration of the workforce themselves at local, national and international monitoring; ie lack a computerized feedback system with graduates.

Improvement plan. We agree with the approach of EI, ratified during interviews, on the need to develop a concrete, measurable and action to strengthen the employability of graduates Pa LMCP network of medical strategic plan, and identify strategies and take action to strengthen labor insertion and tracking of graduates at local, national and international levels.

Rating: 9-Alta.

Perception of students, faculty and staff

Strengths. We believe that the application of surveys to graduates is a strength because it allows qualitatively assess the perception that manage the institution, in terms of quality and relevance of the degree. The instrument is well structured and is easy to use and understanding. In interviews with students, teachers and graduates could corroborate the sense of belonging they have toward their highest seat of learning. Administrative staff noticed him mysticism in job performance.

Weaknesses. Although it is a tool for students to evaluate their teachers, it applies to a few teachers.

Improvement plan. Keep evaluations school year, improving goals. Create and implement an instrument for students. It could corroborate the visit that the instrument is under construction.

Rating: 9-High

Graduates enrolled in the graduate

Strengths. Its graduates carry a high level of quality accredited by the CENEVAL, in addition to national accreditations in recent years. In the ENARM (National Examination of Medical Residences), which allows entry to doctors performing their specializations in different hospitals, the degree has quality standards to enter the race, a full program in all its dimensions, which makes them competitive, although a high percentage admit- as interns, with the advantages that this represents. In addition, we have ENARM record in the last 14 years, with an average percentage of 31.56% admission where CUSUR was ranked

32 of 94 participating universities in 2014. There is a record of theses published from 2010 to 2014.

Weaknesses. They do not have an internal tracking of graduates who are doing postgraduate studies or qualitative and quantitative assessments after culminated its specialties.

Improvement plan. Minimize weaknesses; it is suggested, if allowed by its legal structure, set up a monitoring unit, with a database of graduates, so that by opting and / or enter graduate programs, the University is aware of it; equally to graduate from higher education, such as specializations, masters and doctorates.

Rating: 9-High

Participation of graduates in improving training

Strengths. PA graduates of LMCP medicine network are recognized for the quality of training they receive and excel in their professional practice; This is evident by the performance of graduates in public and private management positions in the areas of health, education and pre graduate level and professional associations. It is noteworthy that some part of the faculty of the University of Guadalajara. Some of the graduates showed a remarkable performance in the field of international health, a condition which was confirmed during visits and interviews.

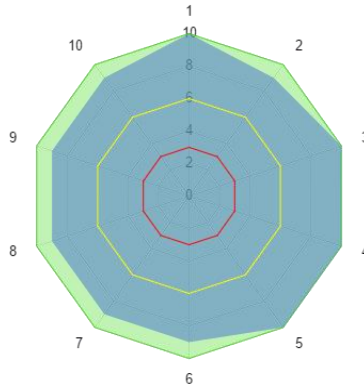
Weaknesses. As in previous items, we agree with the weaknesses reported by the EI during their findings in the internal evaluation and while the interviews were conducted, when posed in general that there is a deficiency in tracking graduates for not having a computer tool interactive, because, otherwise, control labor and academic of each target would be achieved; also not provide the possibility for graduates participate in the process of improving the LMCP PA through forums distance.

Improvement plan. We believe that the EI strategies are adequate to overcome weaknesses, when they raise generate a tracking program graduates.

Rating: 9-High

Chart category

In Graph 2 the outcome of the external evaluation of the social impact of the formation is observed.



Graph 2

Consistency between vision, mission and objectives in the genesis of training with actual results, 2. Participation of internal and external to the institution in planning entities, 3. Relevance and competitiveness in the national and international levels, 4 . Recognition of society to graduates for their performance, 5. Competitiveness of graduates to external similar, 6. Perception of the scientific community, specialized schools, graduates and employers, 7. Impact on national and international labor market, 8. perception of students, faculty and staff, 9. graduates enrolled in graduate school, graduates 10. Participation in improving training.

Discussions

The institution has a clearly articulated mission and vision; these correspond to the nature of the institution and the public domain. This mission is expressed in the objectives, in academic and administrative processes and achievements of each program. It institutional commitment to quality and universal higher education concerning explained. It also reflects the integral formation of students as conscious, competent professionally, morally upright and projected towards the continuous human, professional and social improvement, under the auspices of optimal scientific and technological preparation.

Linking and ilación between 2014-2030 Institutional Development Plan (PDI 2014-2030) and Development Plan 2014-2030 University Center South (PDCUCS 2014-2030), which set the tone for development is evident academic program (PA) with the support of Plan Development Programs (PDP), including the degree of surgeon and midwife (LMCP) doctor is. It is certainly true strength that the PDP modify and adapt every time it updates the PDI and, moreover, is made taking into account the period elapsed accumulated experiences. In this way the coherence between the various elements covered by both plans, with an upward development in quality and relevance is maintained. At the University of Guadalajara development plans that provide functionality to the university network and affect the PA of LMCP are channeled to the ongoing development of actions relating to the planning, programming, budget allocation and evaluation, grounded in a formal system institutional under continuous observation. In the process of updating the 2014-2030 PDI broad participation of the university community and society, which was conducted through a methodology open, a situation that was corroborated during visits to CUCS was evident. In this regard, they referred to the EI that the institution contemplates in its PDI12, 13 staff training in the interests of relevant management, enabling them to contribute to the fulfillment of the objectives and institutional goals, in strengthening the design of the management plan of educational programs. The program LMCP University of Guadalajara has a strong presence in the state of Jalisco, because it is taught in a thematic center and four regional centers, allowing the entry of students not only of regional origin, but also nationally. LMCP The program has been recognized by the Ministry of Public Education (SEP) of Mexico as a quality program. The graduate can obtain recognition of their studies by the SEP to perform the certification exam EGEL-CENEVAL12, according to the legal framework of Mexico. The University of Guadalajara, through the academic program LMCP in CUSUR, allows locate between nine universities that belong to the Register of Programs Academic Degree High Performance-EGEL.

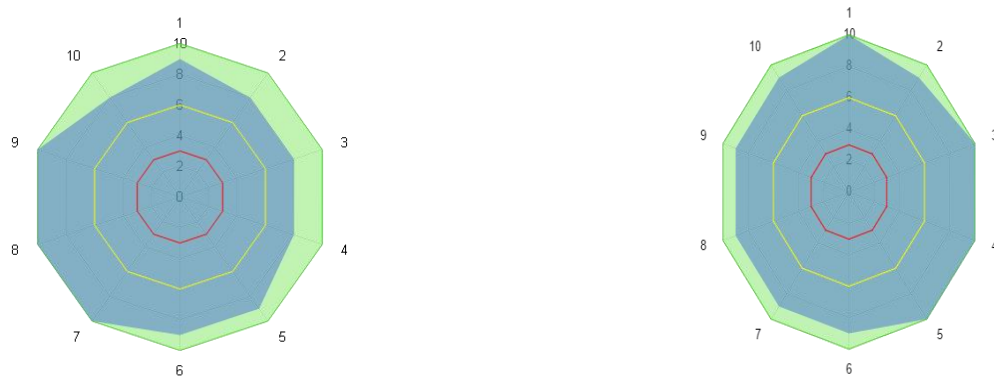
The publication of university scales has become an important reference in the social assessment of the performance of higher education institutions. The National Examination for Medical Residence Applicants (ENARM) 14 is a measuring instrument of knowledge of general medicine. The trend of income sustentantes University of Guadalajara is upward slightly over the years (2009-2014) and ranks second in average and number of admissions

in 2014 ENARM, considering more than 1 000 sustentantes, placing the University of Guadalajara in a very suitable position nationally. It is important to note that both in 2014 and in 2015 the highest average at national level obtained a graduate LMCP PA.

The program is relevant LMCP academically and responds to local, regional, national and international needs. The program has defined a coherent educational project with the institutional project, in which the objectives, the basic outlines of curriculum development goals, policies and strategies for planning and evaluation system and quality assurance listed. The program is public domain. All information referred to above was corroborated during visits and interviews.

On the other hand, it is important to note that Mexico has ratified and acceded to the so-called Apostille of The Haya13 (an agreement for the elimination of the requirement of "Legalization for Foreign Public Documents or agreement Hague"), which recognizes the legal effectiveness a public document issued in another party to that agreement, between what is securities issued by governmental or private entities, as it turns certification of LMCP country.

The procedure of apostille is to place on the public document itself, an apostille certifying the authenticity of the signature of public documents issued in each member country internationally, recognizing therefore the authenticity of the documents have been issued in other countries and They carry the apostille, which allows to recognize the training obtained in an area of knowledge and therefore work professionally to an individual in another signatory country. In Figure 3 the graphs of the internal evaluation versus external evaluation of the social impact of the formation are observed.



Graph 3. Internal evaluation versus external evaluation.

1. Consistency between vision, mission and objectives in the genesis of training with actual results; 2. Participation of internal and external to the institution in planning authorities; 3. Relevance and competitiveness in the national and international levels; 4. Recognition of society to graduates for their performance; 5. Competitiveness of graduates to external like; 6. Perception of the scientific community, specialized schools, graduates and employers; 7. Impact on national and international labor market; 8. Perceptions of students, teachers and administrative staff; 9. Graduates enrolled in the graduate; 10. Participation of graduates in improving training.

Conclusions

Stage visit and interviews the University Center South (CUSUR)

As part of the management process to assess the quality of LMCP network of the University of Guadalajara, Mexico, it has been observed during face external evaluation in the period between the November 26, 2015 and November 27, 2015 the following: internal evaluation committees conducted an intensive information gathering, being very positive hand to the good performance of the external evaluation process which is part of this report. Whenever external evaluators requested different types of information, it was provided immediately, open and transparent manner and may in the visit to the University of Guadalajara interact with all administrative and academic areas. In addition, a high institutional commitment to develop substantive improvements in regard to their academic offerings, with a great willingness to undergo external assessment processes to improve their educational programs. High enthusiasm and commitment by all components of the university community processes and quality improvements. Also, during visits and interviews in the evaluation process with the various academic and administrative authorities, and the internal evaluation committee itself, the points outlined above were evident.

On the report

After the analysis of internal assessment, the opening of the institutional process of the documentation submitted, the visits, the interviews in the assessment process with the various academic and administrative authorities and with the internal evaluation committee itself, showed the points out below, with which the EEC came the following opinion by each of the areas evaluated: there is a strong commitment by the institution to excellence, including the rector, teachers and administrative staff and support. Also a sense of belonging of students with the University and the PA. There is an institutional will to carry out the program, consolidate and ensure its internationalization. The visit was part of an attitude of openness, generosity and transparency that was present in each of the activities, and as a result was fully achieved diagnostic work and dialogue by the EEC with the PA community. This reflects the institutional commitment to quality. The University of Guadalajara has a broad and comprehensive regulatory framework is limited to regulating effective and relevant manner the various substantive functions of the institution. The institution has a clearly articulated mission and vision; these correspond to the nature of the institution and the public domain. This mission is expressed in the objectives, in academic and administrative processes and achievements of each program; its institutional commitment to quality and universal benchmarks of higher education is explicit. coherence between the mission and institutional vision and Pa LMCP the CUSUR, responding to needs of the context, local, regional, national and international was observed. It also reflects the integral formation of students as conscious, competent professionally, morally upright and projected towards continuous human, professional and social improvement, under the auspices of optimal scientific and technological preparation. The University of Guadalajara applies universal and fair mechanisms for income students, who are known for applicants and are based on merit selection and intellectual, grounded in a legal framework. At the institutional level denotes a commitment and a coherent strategy with institutional identity, to promote the internationalization from a thematic axis of Institutional Development Plan 2014-2030. The shaft includes curriculum changes to be global citizens and professional capacity to perform internationally; promote, through international mobility, the development of a critical mass to help improve academic inbreeding; strengthen research and generation of external cooperation resources; develop partnerships for shared

international programs and attract high level talent. On the other hand, the link between the Institutional Development Plan 2014-2030 (PDI 2014-2030) and the Development Plan of the University Center of Health Sciences 2014-2030 (PDCUCS 2014-2030) sets the tone for the development of academic programs (PA) with the support of Plan Development programs (PDP), including the degree of surgeon and midwife is. The University of Guadalajara has a very adequate infrastructure and material resources, and it is important to highlight the effort in investment in recent years. The program applies policies entry and stay established at institutional level, and effectively achieves the culmination of students on schedule as it is flexible to the needs of the student. The counseling and mentoring offered by the program are reflected in the low levels of attrition that are registered in the program; however, it seems crucial that there should be a plant professorial hiring more time to cover them, when observed that enrollment is on the rise. The evolution in the development of research is evident and manifested in the results related to training, student participation in national and international academic activities and publications of teachers in recognized journals nationally and internationally, as well as books of interest for students and the general public. Production research by scholars associated with the academic program is significant, and they are recognized by the National Researchers System (SNI). The institution has a professorial plant high-quality, committed to the PA and the development of the substantive functions. The program records an important dynamic of participation by their teachers as attendees and speakers at international events organized by prestigious institutions in research stays and courses pedagogical and disciplinary update. It was recognized that the production of research by scholars associated with the academic program is significant and them is recognized by the (SNI). It was noted that internal evaluation committees conducted an intensive information gathering and was very positive hand to the good performance of the external evaluation process. Whenever different types of information requested, this was provided immediately, open and transparent way, allowing the visit to the university interact with all administrative and academic areas. The program welcomes the institutional academic model with a semi-flexible curriculum structure, which is organized into learning units that result in the establishment of professional skills. Under the implementation of the new curriculum that is built from calendar 2014-B, a congruence and relevance in curriculum design curriculum

with the objectives, the organization of the material and its contents denotes the transition progressive and grouping of these, disciplinary axes and associated self-management activities in the curriculum. The curricula of undergraduate learning units provide for common and private compulsory basic training, training especializante selective medical, surgical guidance, research and family care, and elective training area open. The development of professional practices in students of the race takes place during their training, which are supervised by qualified teachers. The practical nature of the discipline allows fulfill the social commitment expressed in the mission and institutional vision. It is argued that the high demand for student attention, especially in professional practice, suggests that the institution consider an increase in professorial plant to ensure proper accompaniment. During the training process of students in this degree, and following academic guidelines outlined in the development plan of the University of Guadalajara, University Center South, to develop skills that the graduate establish a close link with society; it also provides the opportunity to meet the needs of their environment and globalization policies so that you can join and develop their knowledge for the benefit of the national and international community. The CUSUR has a laboratory infrastructure, health clinic, space simulation technology for teaching and external medical centers linked to the PA. Physical and technological infrastructure of the University Center is considered, in general, relevant terms and covers most of the basic training needs of students. the effort of the institution and the program is recognized by modernizing infrastructure and the provision of academic support. The library has a wide range of database and books, and offers workshops and courses in areas that were not considered in the PA, as the domain of another language and use of ICT, which are vital in the formation and internationalization of both students and graduates as teachers. There provision of services to the community of teachers and students continuously both in education, prevention and treatment in fixed and mobile installations and in specific campaigns health promotion and disease detection. The University of Guadalajara in general and the University Center of the South (CUSUR) in particular have agreements with several of the most important institutions of federal and international health. Students in the program have participated in academic international events, such as summer scientific research and international conferences that take place in the country. The program shows an increase in international academic mobility in recent

years, and has financial support from the Unit of Scholarships and outreach opportunities by the General Coordination of Cooperation and Internationalization. There is a clear organizational structure which provides guidelines to meet the needs and demands of students, teachers, administrators and staff. It is important to note that during the various visits and interviews scheduled for assessment Pa LMCP the CUSUR, all the information and annexes placed by the CEI was found. Graduates of the program are recognized for the quality of training they receive and are noted for their professional performance.

Regarding weaknesses

The most significant in terms of the weaknesses was regarding the need for systematization of information, as was the relationship of graduates and respect to outreach. Another significant aspect is the need to ensure the inclusion and prosecution in the race to vulnerable groups, in line with the infrastructure for these groups, which is not one hundred percent right. Installing ramps for the disabled is a priority. It is suggested that a system of allocation and transfer of credits to be applied internationally, and handling of a second language is adopted. The low responsiveness of students to the idea of exchanges could be due to certain obstacles to the mobility of students. Some of these limitations would be related directly to the PA, because learning another language, mandatory for exchanges, has no binding character. In addition, the costs of certain bureaucratic procedures (such as visas) as well as the investment of time to comply with them may discourage certain candidates.

Proposals: an increase recommended in the disclosure of its strengths, especially in institutional social networks nationally and internationally; massify teaching a second language as part of the curriculum; that are concrete proposals to encourage student and teacher mobility, publication in refereed journals and international and books, participation (as speakers) in international events and international recognition of the PA. As described, the PA has a regional and national recognition that has enabled it to consolidate its leadership position in the LMCP of Mexico. The PA has already been evaluated favorably by national organizations that certified the quality of the program and some tools designed for growth. Reports of previous assessments by these agencies has resulted in a thorough examination and a sincere process of reflection and readjustment of the PA.

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