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DATED: 24/06/2021

To,

The Director Medical & Education
SMBB Medical University
Larkana

Subject: SUBMISSION OF COMPETENCY FRAMEWORK FOR THE BACHELOR OF DENTAL SURGERY (BDS).

Respected Madam,

It is submitted, the Competency Framework for the Bachelor of Dental Surgery (BDS) prepared with reference to CanMEDS 2015.

This is for your kind information.

PROF. DR. SYED YOUSIF ALI SHAH
PRINCIPAL
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Copy for information to:

- The Dean Faculty of Surgery & Allied Sciences SMBBMU Larkana
- The Registrar SMBBMU Larkana
- The Director Academics SMBBMU Larkana.
- The Assistant Accounts Officer BADC Larkana.
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BACHELOR OF DENTAL SURGERY (DENTIST) BIBI ASEefa DENTAL COLLEGE LARKANA



COMPETENCY FRAMEWORK

LEARNING OBJECTIVES OF THE BACHELOR OF DENTAL SURGERY (BDS)

PROGRAMME

Analytic competency and Critical Thinking:

Description: Analytical skills refer to the ability to collect and analyze information, to resolve the problem, and make decisions for treatment. Critical thinking and analysis are vital aspects of Dental Graduate in professional life- when working with other team members. While critical analysis requires examining ideas, evaluate them in light of knowledge and make decisions about their merits and critical reflections requires to generate different perspectives using knowledge from different sources to explain, justify and challenge the treatment modalities.

The knowledge of literature gives alternative treatment options to consider, which provides evidence to support our practice options.

Dentistry has a long standing history of knowledge, which trains graduates what they need to know. Learning how to model and assist them in their development of critical thinking skills. Teaching graduates critical thinking skills also has implications for patient care. Cultivating this set of practice with skills would help to dentist values and motivate patients about;

(a) Oral health diseases and their correlation with systemic diseases.

(b) The knowledge of symptoms that warrant intervention should be dealt with critical analysis. The role of compliance in promoting self-care. Helping dentists to transform learning so they may become competent practitioners and may deal the medical and dental emergencies during procedures. Critical Thinking Skills has implications for the delivery of quality oral healthcare, costs, and well-being.

KEY COMPETENCIES	ENABLING COMPETENCIES
	A BACHELOR OF DENTAL SURGERY IS ABLE TO :
<p>1. Basic and clinical knowledge and its application</p> <p>2. Evaluate the Evidence</p> <p>3. Consider Solutions</p>	<p>1.1 Demonstrate in-depth the knowledge of basic and clinical sciences relevant for the management options of different dental diseases and deal with the systemic problems related with dental diseases. To select the evidence based treatment option.</p> <p>2.1 Effectively evaluate, apply, and integrate information related to dental diseases, their systemic correlation and their management in practice, which should be from the scientific to the societal level.</p> <p>2.2 To understand, correlate, and apply the basic and clinical foundation knowledge in their practice. Evaluate and clarify the new and evolving knowledge of practice.</p> <p>3.1 To Plan multiple treatment solutions based on evidence based dentistry. Know the advantages and disadvantages of different treatment options.</p> <p>3.2 To outline the obstacles encountered, as well as any short- or long-term result.</p> <p>3.3 To perform and exercises the practices that are recommended for patients and ensure that the right solution has been carried out</p>

<p>4. Choose and Implement</p>	<p>4.1 To determine the amount of risks involved with the solution.</p> <p>4.2 To use the practical solutions and then the concurrence with any priorities that need to be fulfilled</p> <p>4.3 To perform the exercises that are recommended for a particular patient to ensure that it is the right action for the particular patient.</p> <p>Clinical skills' development is an important part of dentist which involve cognitive and technical skills representing the essential aspects of professional competency</p>
<p>5. COGNITIVE SKILLS</p>	<p>5.1 To demonstrate the competency in providing evidence based patient care in which they access, critically evaluate and communicate scientific and lay literature, incorporating efficacious procedures with consideration to patient needs and preferences</p> <p>5.2 demonstrate the cognitive skills and memory necessary to measure, calculate, and reason in order to analyze, integrate and synthesize information</p>

COLLABORATION AND TEAMWORK

DESCRIPTION: Collaboration is essential for safe, high-quality, patient- centered care, and involves patients and their families for prevention of diseases and promotion of health.

Collaboration requires the trust, respect and sharing of opinions in decision-making among a variety of individuals with complementary skills. It involves sharing knowledge, perspectives, responsibilities and a willingness to learn together. This requires understanding the roles of others, pursuing common goals and outcomes, and managing differences.

Collaborations are broadly applicable to activities beyond clinical care, such as application of appropriate codes, rules, laws and regulations that govern dental practice.

Multidisciplinary teams provide health benefits to both the patients and the health professionals working in team. These include improved health outcomes and enhanced satisfaction of clients.

Key competencies	Enabling competencies
	A BACHELOR OF DENTAL SURGERY (BDS) GRADUATE IS ABLE TO :
<p>1. Work effectively with other colleagues in the health care professions</p> <p>2. Work with other colleagues in the health care professions to promote understanding, manage differences, and resolve conflicts</p> <p>3. Hand over the care of a patient to another health care professional to facilitate continuity of safe patient care.</p>	<p>1.1 Establish and maintain positive relationships with other colleagues in the health care professions to support collaborative care.</p> <p>1.2 Negotiate overlapping and shared responsibilities with other colleagues in the health care professions.</p> <p>1.3 Engage in respectful shared decision-making with other colleagues in the health care professions.</p> <p>2.1 The graduates should understand the team members, respect their opinions and conflicts should be resolved with consensus.</p> <p>2.2 Implementations of strategies for facilitating the understanding among members. Able to manage differences and resolve conflicts in a manner that supports team work.</p> <p>3.1 Able to determine the referral, safe handover of care using communication skills during patient transfer to other health care professional/ setting/ stage of care</p>

PRACTICAL SKILLS:

DESCRIPTION: Professionalism involves being familiar with the present and advanced standards of practice. Dentists should know codes of conduct and professional and organizational policies as well as legal and ethical standards such as confidentiality. He must also recognize the role in the multi-disciplinary team and demonstrate appropriate professional behaviors and attitudes. He should be competent in patient assessment, diagnosis, treatment planning and referral. He should communicate and collaborate with individuals to prevent oral diseases, promote oral health care, control of pain and anxiety with clinical pharmacology and related systemic problems. Competency in management of dental and medical emergencies along with detection and risk assessment. He must be able to restore defective teeth in their form, functions and aesthetics, as well as replacement of teeth with different types of prosthesis. He should be able to collect, assess diagnostic information to plan for uncomplicated oral surgical procedures, recognize and diagnose occlusion/malocclusion problems. Ethical considerations are mandatory. There should be competency in performing and supervising infection control procedures to prevent the cross infections. In the last Dentists have the ability to recognize the role of life-long learning and self-assessment to maintain competency.

Their work requires mastery of the art, science, and practice of multiple surgical procedures. The Professionalism fulfills expectations of society, which include clinical competency, a commitment for the promotion of the public health, adherence to ethical standards with the consent of patients.

Key competencies	Enabling competencies
	A BACHELOR OF DENTAL SURGERY (BDS) GRADUATE IS ABLE TO :
1. Commitment to patients by applying best practices and adhering to high ethical standards	The dentist exhibits appropriate professionalism and relationships in all aspects of clinical practice including diagnosis, different options of treatment which should be evaluated in the light of knowledge, literature, team members and patient consent in lieu with ethical standards.

<p>2. Commitment to society by recognizing and responding to societal expectations in health care</p>	<p>2.1 Demonstrate the commitment with society in terms of providing knowledge, apprehension of different dental diseases and their prophylaxis. The knowledge of prevention from dental diseases and their treatment options are dissipated by the dentist.</p> <p>2.2 The dentists fulfill the expectations of society by providing the primary, secondary and tertiary oral health care being accountable for his/her treatment plans.</p> <p>2.3 Demonstrate a qualitative commitment to patient safety.</p>
<p>3. commitment to the profession by adhering to standards and regulation</p>	<p>3.1 The professional commitment of dentists is expressed in terms of ethical codes and choice of standards used in the practices in the betterment of society.</p> <p>3.2 Recognize and respond to unprofessional and unethical behaviors in the dental practice.</p>
<p>4. Commitment to Personal health and well-being</p>	<p>4.1 Dentist should exhibit self-awareness and be able to manage all types of influences/effects on personal well-being and professional performance.</p> <p>4.2 Manage personal and professional demands for a sustainable clinical practice in long terms.</p>

COMMUNICATIONS

DESCRIPTION: Effective communication skills are mandatory to be practiced in the clinical setup. It should be the responsibility of the dentist to communicate with patients in terms of understanding the problem and its solutions. The Graduate should understand the patient's perspective, including their fears, ideas and feelings about the illness, their impact on health. The Graduate should be able to integrate his/her knowledge with an understanding in the patient's context, including socio-economic status, medical history, family history, stage of life, living situation, work or school setting, and other relevant physical, psychological and social issues.

Key competencies	Enabling competencies
	A BACHELOR OF DENTAL SURGERY (BDS) GRADUATE IS ABLE TO :
<p>1. Establish professional therapeutic relationships with patients and their families.</p> <p>2. Elicit and synthesize accurate and relevant information</p>	<p>1.1 Establishment of professional therapeutic relationship with patients and their families is mandatory in dentistry that is built by patient-centered approach that encourages patient trust and autonomy and is characterized by empathy, respect, and compassion.</p> <p>1.2 Optimize the good environment in terms of comfort, dignity, privacy, engagement, and safety for patients.</p> <p>1.3 Respond to a patient's non-verbal behaviors to enhance communication and manage disagreements and emotionally charged conversations.</p> <p>1.4 Adapt to the unique needs and preferences of each patient and to his or her clinical condition and circumstances.</p> <p>2.1 Use patient-centered interviewing skills to effectively gather relevant medical and social information.</p> <p>2.2 Prepare a clear report and manage the flow of an entire patient counter.</p> <p>2.3 Collect the relevant information from other sources, including the patient's family, with their consent.</p>

<p>3. Share Oral and Dental health care information and plans with patients and their families</p> <p>4. Engage patients and their families in developing plans that reflect the patient's health care needs and goals</p> <p>5. Document and share written and electronic information about the treatment encounter to optimize clinical decision-making, patient safety, confidentiality, and privacy</p>	<p>3.1 Share practical information and explanations which should be clear, accurate, and timely, while dealing with patients and their families.</p> <p>3.2 Disclose and express the harmful and safety incidents to patients and their families in a proper way.</p> <p>4.1 Encourage discussions with patients and their families in a mannered way without judgments and culturally safe.</p> <p>4.2 Assist patients and their families to identify, access, and make use of information and communication technologies to support their care and manage their health.</p> <p>4.3 Use communication skills and strategies that help patients and their families make informed decisions regarding their treatment plans.</p> <p>5.1 Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legal requirements.</p> <p>5.2 Communicate effectively using a written health record, electronic medical and dental record, or other digital technology.</p> <p>5.3 Share information with patients and others in a manner that respects patient privacy and confidentiality and enhances understanding.</p>
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RESEARCH:

DESCRIPTION: Research skills are an individual's ability to find and evaluate useful information related to a specific topic. These skills include performing investigations, using critical analysis, and forming hypotheses or solutions to a particular issue. Having these skills is imperative in advancing career as these are directly related to ability to gain insight and inspire actions. Health research has a value in society. It provides important information about disease trends (epidemics, endemics, sporadic and pandemics) and risk factors, outcomes of treatment or public health interventions, functional abilities, patterns of care, and health care costs and use. The different approaches to research provide complementary insights. Clinical trials can provide important information about the efficacy and adverse effects of medical interventions by controlling the variables that could impact the results of the study, but feedback from real-world clinical experience is also crucial for comparing and improving the use of drugs, vaccines, medical devices, and diagnostics.

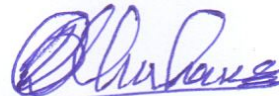
Key competencies	Enabling competencies
	A BACHELOR OF DENTAL SURGERY (BDS) GRADUATE IS ABLE TO :
<p>1. Engage in the continuous enhancement of their professional activities through ongoing learning</p> <p>2. Integrate best available evidence into practice</p> <p>3. Contribute to the creation and</p>	<p>1.1 Develop, implement, monitor, and revise a personal learning plan to enhance dental practice.</p> <p>1.2 Identify opportunities for learning and improvement by regularly reflecting and assessing the performance using various internal and external data sources.</p> <p>1.3 Engage in collaborative learning continuously to improve personal practice and to contribute collective improvements in practice.</p> <p>Recognize and evaluate the evidence based treatment options. There should be no uncertainty and knowledge gaps in clinical and other professional encounters and generate focused questions that address them.</p> <p>3.1 Identify, select, and navigate pre-appraised resources which should be critically evaluated for the integrity, reliability, and applicability of health- related research and literature</p>

<p>dissemination of knowledge and practices applicable to health</p> <p>4. Understanding scientific and ethical principle</p>	<p>3.2 Integration of evidences for decision-making in dental practice.</p> <p>4.1 Demonstrate and understanding of the scientific principles of research and scholarship and the role of research evidence in health care system.</p> <p>4.2 Identify ethical issues in research and the informed consent must be obtained, considering potential harms and benefits among vulnerable populations along with strict compliance of confidentiality.</p> <p>4.3 Contribution in research programs</p> <p>4.4 Summarization and publications of the findings of relevant research and scholarly information for professionals, audiences, including patients and their families.</p>
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