Updated programmatic learning outcomes for the training of family physicians in South Africa

The training of medical specialists should constantly be re-aligned to the needs of the population and the health system. The national Education and Training Committee of the South African Academy of Family Physicians reached consensus on the updated programmatic learning outcomes for the training of specialist family physicians in South Africa. Learning outcomes were first developed to guide training programmes when the speciality was recognised in 2007. Fifteen years later, it was time to revisit and revise these learning outcomes. Learning outcomes define what family physicians are able to do at the end of 4 years of postgraduate training. This revision presents five unit standards and 83 programmatic exit-level learning outcomes.

Keywords: family physicians; health professions education; learning outcomes; education; curriculum; competency-based education.

Introduction

The training of medical specialists should constantly be re-aligned to the needs of the population and the health system. In 2021, the discipline of Family Medicine in South Africa presents an updated set of programmatic learning outcomes for the training of specialist family physicians, which defined what family physicians should be able to do at the end of their 4 years of postgraduate training.

These new outcomes replace the previous ones that were published in 2012. The original outcomes were developed simultaneously with the recognition of Family Medicine as a new specialty in South Africa in 2007. Over the last 10-years, the discipline has observed the actual competencies expected of family physicians as they engage with patients and the health system, mostly at a primary health care and district hospital level. The health system has evolved through reengineering and strengthening of primary health care as well as through the piloting of national health insurance as a vehicle to enable universal health coverage. The landscape of the burden of disease has also shifted with, for example, the human immunodeficiency virus (HIV) epidemic being more controlled through antiretroviral medication and non-communicable diseases, such as diabetes mellitus, becoming more prominent.

During the last 10-years, the university training programmes have coordinated their activities through the South African Academy of Family Physician’s national Education and Training Committee (ETC). At the same time, the College of Family Physicians, within the Colleges of Medicine of South Africa, was mandated to run the national licensing examination. Over this period, a number of revisions were already approved, such as new outcomes for training in leadership and clinical governance, as well as a new list of clinical skills.

The national outcomes should be aligned with the curriculum content, educational approach and forms of assessments within each training programme. These new outcomes will, therefore, have implications for each university. Workplace-based training and assessment is an essential component of all programmes; and a standardised national portfolio of learning has been introduced across all programmes. This in turn is one of the entry requirements for the licensing examination.

Process of revision

The previous unit standards and outcomes were included in an electronic questionnaire that went to all training programmes in the country. Each training programme discussed the outcomes.
internally and gave feedback in the questionnaire on the structure of the unit standards and whether to keep, discard or re-phrase each outcome. In addition, every training programme had the opportunity to suggest new learning outcomes. The collated results were presented to the ETC, and all changes and comments were discussed. From the results of the survey, it was recognised that unit standard three, on community-orientated primary care, needed more extensive revision and careful thought. A sub-group was tasked with re-writing these outcomes completely and presenting the results to the ETC. At the same time, a sub-group, assessing the curriculum content for unit standard four, also made recommendations on revising the learning outcomes. The final set of outcomes were discussed again by the ETC, and a consensus was reached across all training programmes.

Unit standards and learning outcomes

The five unit standards were retained, but the definitions were revised as shown in Table 1. The learning outcomes for each unit standard are presented in Table 2.

Conclusion

This open forum article, presents the updated programmatic learning outcomes for training family physicians in South Africa as agreed by the discipline in 2021. Departments of Family Medicine at all universities that train family physicians will need to ensure that their programmes are re-aligned with these new outcomes. The College of Family Physicians will also need to ensure that in future the blueprinting of their national licencing examination is aligned with the new outcomes. Plans are underway to align the learning outcomes with a set of entrustable professional

| Table 1: Definitions of unit standards and capabilities required. |
|---------------------------------------------------------------|
| **Unit standard definitions**                                 |
| **Unit standard 1**: Effectively manage themselves, their team and their practice, in any sector, with visionary leadership and self-awareness in order to ensure the provision of high-quality, evidence-based care. |
| **Unit standard 2**: Evaluate and manage patients with both undifferentiated and more specific problems in a holistic, cost-effective manner. |
| **Unit standard 3**: Improve the health and quality of life of the community. |
| **Unit standard 4**: Facilitate the learning of others regarding the discipline of family medicine, primary healthcare, and other health-related matters. |
| **Unit standard 5**: Conduct all aspects of healthcare in an ethical, legal and professional manner. |
| **Unit standard capabilities**                                |
| A person who has achieved this standard is capable of effectively managing themselves, their team and their practice, regardless of the sector, shows self-awareness in their personal and professional approach and provides high-quality care based on current evidence. |
| A person who has achieved this standard is capable of evaluating and managing patients, with both undifferentiated and more specific problems, holistically and cost-effectively. |
| A person who has achieved this standard is capable of leading and implementing integrated and comprehensive community-oriented primary care. |
| A person who has achieved this standard is capable of educating, teaching, mentoring or supervising others regarding the discipline of family medicine, primary healthcare, and other health-related matters. For example, this may involve the supervision of clinical associates, interns or registrars, teaching of medical students or mentoring of clinical nurse practitioners and junior medical officers. The capability also extends to interaction with community groups and patients. |
| A person who has achieved this standard is capable of conducting all aspects of healthcare in an ethical, legal and professional manner. |

| Table 2: Programmatic learning outcomes. |
|-----------------------------------------|
| **Unit Standard**                       |
| **Description**                         |
| 1.1 Developing self optimally as a leader: |
| 1.1.1 Demonstrating self-awareness and reflection in terms of one's personality, personal values, preferred learning and leadership styles, and learning and development needs |
| 1.1.2 Demonstrating effective methods of self-management and self-care |
| 1.1.3 Demonstrating willingness to seek help, when necessary |
| 1.1.4 Demonstrating an ability to implement and monitor strategies for self-growth and personal development |
| 1.2 Offer leadership within the healthcare team and district health system by: |
| 1.2.1 Communicating and collaborating effectively |
| 1.2.2 Demonstrating an ability to build capability, mentor or coach members of the healthcare team |
| 1.2.3 Demonstrating an ability to engage and influence others through advocacy, group facilitation, presentations, critical thinking, or behaviour change counselling |
| 1.2.4 Working effectively as a member of the sub/district healthcare team |
| 1.3 Describe and contribute to the functioning of the district healthcare system |
| 1.3.1 Demonstrating an understanding of the principles of the district health system in the context of existing and potential legislation and policy |
| 1.3.2 Demonstrating an ability to contribute to the management of a facility, sub-district, or district healthcare system |
| 1.4 Lead clinical governance activities |
| 1.4.1 Demonstrating the ability to lead a quality improvement cycle in practice |
| 1.4.2 Demonstrating reflection on health information (e.g. monitoring and evaluation, national core standards) in order to improve quality of clinical care (e.g. rational prescribing and use of investigations) in the sub-district/district |
| 1.4.3 Facilitating risk management processes and improving patient safety (e.g. conduct morbidity and mortality meetings, assess competence of new clinical staff, perform root cause analysis, manage patient complaints) in the sub-district/district |
| 1.4.4 Facilitating the implementation of clinical guidelines in the sub-district/district |
| 1.4.5 Critically reviewing new evidence (e.g. research) and applying the evidence in practice |
| 1.4.6 Contributing to the development or revision of guidelines by generating new evidence (e.g. perform research) or representing the viewpoint of the district health services in the process |
| 1.5 Understand and influence corporate governance |
| 1.5.1 Understand the principles of human resource management (e.g. labour relations, recruitment, disciplinary procedures, grievances) |
| 1.5.2 Demonstrate the ability to complete performance appraisals of staff |
| 1.5.3 Understand the principles of financial management (e.g. budgets, health economics, financial planning) |
| 1.5.4 Understand the principles of procurement and infrastructure (e.g. supply chain, entreprenurship, buildings) |
| 1.5.5 Understand the principles of health information and record-keeping systems |
| 1.5.6 Understand the principles of rational planning of health services |
| 1.5.7 Be able to communicate effectively with those responsible for corporate governance |
| 2.1 Evaluate a patient holistically: |
| 2.1.1 Taking a relevant history in a patient-centred manner, including exploration of the patient’s illness experiences and context |
| 2.1.2 Performing a relevant and accurate examination |
| 2.1.3 Deciding on or performing appropriate special investigations where indicated, based on current evidence and balancing risks, benefits and costs |
| 2.2 Formulate and execute, in consultation with the patient, a mutually acceptable cost-effective management plan, evaluating and adjusting elements of the plan as necessary by: |
| 2.2.1 Communicating effectively with patients to inform them of the diagnosis or assessment and to seek consent on a management plan |
| 2.2.2 Establishing priorities for management, based on the patient’s perspective, biological and socio-economic preconditions, medical urgency and context |
| 2.2.3 Formulating a cost-effective management plan and appropriate safety netting |
| 2.2.4 Formulating a management plan for patients with family-orientated or other social problems, making appropriate use of family and other social and support, and resources |

Table 2 continues on the next page →

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| TABLE 2 (Continues...): Programmatic learning outcomes. | TABLE 2 (Continues...): Programmatic learning outcomes. |
|-----------------------------|--------------------------------------------------|
| **Unit Standard** | **Description** | **Unit Standard** | **Description** |
| 2.2.5 | Applying technology cost-effectively and in a manner that balances the needs of the individual patient and the greater good of the community. | 4.1.6 | Facilitating small group learning. |
| 2.2.6 | Incorporating disease prevention and health promotion | 4.1.7 | Eliciting course evaluation and feedback from participants or students. |
| 2.2.7 | Performing effectively and safely the procedural and surgical skills necessary to function as a generalist | 4.1.8 | Applying the principles of assessment of learning. |
| 2.2.8 | Effectively managing concurrent, multiple and complex clinical issues, both acute and chronic, often in a context of uncertainty | 4.1.9 | Conducting an evidence-based approach to teaching. |
| 2.2.9 | Demonstrating a patient-centred approach to management using collaborative decision-making | 4.1.10 | Managing the learner in difficulty. |
| 2.2.10 | Including the family in the management and care of patients, whenever appropriate. | 5.1 | Demonstrate an awareness of the legal and ethical responsibilities in the provision of care to individuals and populations by: |
| 2.2.11 | Counselling patients, for example, with regard to bad news, psychosocial issues, trauma, behaviour change and difficult decisions. | 5.1.1 | Identifying and defining an ethical dilemma using ethical concepts. |
| 2.2.12 | Recognising and managing the importance of relationships that affect health, using appropriate tools (e.g. genograms and ecomaps) to identify potential problems and solutions. | 5.1.2 | Applying a problem-solving approach in which the law, ethical principles and theories, medical information, societal and institutional norms, and personal value system are reflected. |
| 2.2.13 | Demonstrating the ability to work in collaborative multidisciplinary teams. | 5.1.3 | Formulating possible solutions to the ethical dilemma. |
| 2.2.14 | Referring patients, where necessary, to the clear referral path of care or expertise | 5.1.4 | Implementing these solutions in order to provide healthcare in an ethical, compassionate and responsible manner that reflects for the human rights of patients and colleagues. |
| 2.2.15 | Coordinating the care of patients with other professionals or health workers | 5.1.5 | Demonstrating adherence to Health Professions Council of South Africa ethical guidelines. |
| 2.2.16 | Demonstrating appropriate recordkeeping | 5.1.6 | Apply relevant law to clinical practice. |
| 2.3 | Provide comprehensive, continuing care throughout the lifecycle, incorporating preventative, diagnostic, therapeutic, palliative and rehabilitative interventions, by: | 5.1.7 | Demonstrate the ability to effectively manage patient complaints and advise on medico-legal risks and media enquiries. |
| 2.3.1 | Demonstrating a commitment to building continuity of care and ongoing relationships with patients, as well as an understanding of the chronic care model. | 5.2 | Demonstrate professional values in relationship to society, interpersonal relationships and personal behaviour by: |
| 2.3.2 | Demonstrating an ability to provide preventive care, using primary, secondary and tertiary prevention as appropriate, and to promote wellness. | 5.2.1 | Demonstrating professional values in relationship to society, for example, striving for equity in healthcare delivery, striving for quality in healthcare delivery and defending the human rights of patients and colleagues. |
| 2.3.3 | Demonstrating the ability to make a functional assessment of a patient with impairment or disability and enable his or her rehabilitation. | 5.2.2 | Demonstrating professional values in interpersonal relationships, for example, dealing courteously with patients, colleagues and the public, and having regard for cultural issues and individual dignity. |
| 2.3.4 | Demonstrating the ability to provide holistic palliative care. | 5.2.3 | Demonstrating professional values in personal behaviour, for example, delivering healthcare of a consistent high standard irrespective of his or her own perceptions or prejudices and the background, with respect to gender, ethnicity, religion or sexual orientation, of his or her patient. |
| 2.3.5 | Demonstrating an understanding of the emotional and physical aspects of pregnancy, birth, childhood, adolescence, young adulthood, adulthood and aging. |  | }

**See Table 2 continues in the next column →**

CHW, community health worker.

activities and observable practice activities. The outcomes will be revised in 5 years’ time.

**Acknowledgements**

We acknowledge the other members of the national Education and Training Committee of the South African Academy of Family Physicians who were responsible for updating the learning outcomes: Prof Klaus von Pressentin, Dr Tasleem Ras (University of Cape Town); Dr Ts’epo Motsohi, Dr Zelra Malan (Stellenbosch University); Dr Elizabeth Reji, Prof Hanneke Brits (University of the Free State); Prof Olufemi Omole, Prof Richard Cooke, Ms Deirdre Pretorius (University of the Witwatersrand); Prof Indiran Govender, Dr Olga Makhsha (University of Pretoria); Prof Honey Mabuza, Dr Kefiwe Hlabyago, Dr Nnatile Nyalunga (Sefako Makgatho Health Sciences University); Prof Bernhard Gaede (University of KwaZulu-Natal); Dr Mohammad Shoyeb (University of Limpopo); Prof Parimalaranie Yogeswaran, Dr Bussiwe Cawle (Walter Sisulu University); Dr Emmanuel Ajudu, Dr Febi Ajudu (Nelson Mandela University); Dr Chantelle van der Bijl (Registrar representative).

**Competing interests**

The authors declare that they have no financial or personal relationships that may have inaccurately influenced them in writing this article.
Authors’ contributions
R.M., H.S. and M.N., all helped to coordinate the process leading to the updated outcomes. The manuscript was drafted by R.M. and edited by H.S. and M.N. All approved the final version.

Ethical considerations
This article followed all ethical standards for research without direct contact with human or animal subjects.

Funding information
This article received no specific grant from any funding agency in the public, commercial or not-for-profit sectors.

Data availability
Data sharing is not applicable to this article as no new data were created or analysed in this study.

Disclaimer
This is the official viewpoint of the South African Academy of Family Physicians.

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