

**Appendix 1:** Brazilian legal and regulatory documents mentioned in the text. All resources are in Portuguese. URLs are accurate as of October 1, 2017.

Document	No. Date	URL
<b>Federal laws (<i>Leis</i>)</b>		
3.820	November 11, 1960	<a href="http://www.planalto.gov.br/ccivil_03/leis/L3820.htm">www.planalto.gov.br/ccivil_03/leis/L3820.htm</a>
5.081	August 24, 1966	<a href="http://www.planalto.gov.br/ccivil_03/leis/L5081.htm">www.planalto.gov.br/ccivil_03/leis/L5081.htm</a>
7.498	June 25, 1986	<a href="http://www.planalto.gov.br/ccivil_03/leis/L7498.htm">www.planalto.gov.br/ccivil_03/leis/L7498.htm</a>
8.080	September 19, 1990	<a href="http://www.planalto.gov.br/ccivil_03/leis/L8080.htm">www.planalto.gov.br/ccivil_03/leis/L8080.htm</a>
8.234	September 17, 1991	<a href="http://www.planalto.gov.br/ccivil_03/leis/1989_1994/L8234.htm">www.planalto.gov.br/ccivil_03/leis/1989_1994/L8234.htm</a>
9.394	December 20, 1996	<a href="http://www.planalto.gov.br/ccivil_03/leis/L9394.htm">www.planalto.gov.br/ccivil_03/leis/L9394.htm</a>
10.858	April 13, 2004	<a href="http://portalarquivos.saude.gov.br/images/pdf/2014/fevereiro/26/lei10858.pdf">http://portalarquivos.saude.gov.br/images/pdf/2014/fevereiro/26/lei10858.pdf</a>
10.861	April 14, 2004	<a href="http://www.planalto.gov.br/ccivil_03/_ato2004-2006/2004/lei/110.861.htm">www.planalto.gov.br/ccivil_03/_ato2004-2006/2004/lei/110.861.htm</a>
11.129	June 30, 2005	<a href="http://www.planalto.gov.br/ccivil_03/_Ato2004-2006/2005/Lei/L11129.htm">www.planalto.gov.br/ccivil_03/_Ato2004-2006/2005/Lei/L11129.htm</a>
11.903	January 14, 2009	<a href="http://www.planalto.gov.br/ccivil_03/_Ato2007-2010/2009/Lei/L11903.htm">www.planalto.gov.br/ccivil_03/_Ato2007-2010/2009/Lei/L11903.htm</a>
13.021	August 8, 2014	<a href="http://www.planalto.gov.br/ccivil_03/_Ato2011-2014/2014/Lei/L13021.htm">www.planalto.gov.br/ccivil_03/_Ato2011-2014/2014/Lei/L13021.htm</a>
<b>Directives (<i>Portarias, Ministério da Saúde</i>)</b>		
204	January 29, 2007	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2007/prt0204_29_01_2007_comp.html">http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2007/prt0204_29_01_2007_comp.html</a>
344	May 12, 1998	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/svs/1998/prt0344_12_05_1998_rep.html">http://bvsmms.saude.gov.br/bvs/saudelegis/svs/1998/prt0344_12_05_1998_rep.html</a>
1.559	August 1, 2008	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2008/prt1559_01_08_2008.html">http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2008/prt1559_01_08_2008.html</a>
1.625	July 10, 2007	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2007/prt1625_10_07_2007.html">http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2007/prt1625_10_07_2007.html</a>
2.488	October 21, 2011	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2011/prt2488_21_10_2011.html">http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2011/prt2488_21_10_2011.html</a>
4.279	December 30, 2010	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2010/prt4279_30_12_2010.html">http://bvsmms.saude.gov.br/bvs/saudelegis/gm/2010/prt4279_30_12_2010.html</a>
<b>Decrees (<i>Decretos</i>)</b>		
20.931	January 11, 1932	<a href="http://www.planalto.gov.br/ccivil_03/decreto/1930-1949/D20931.htm">www.planalto.gov.br/ccivil_03/decreto/1930-1949/D20931.htm</a>
94.406	June 8, 1987	<a href="http://www.planalto.gov.br/ccivil_03/decreto/1980-1989/D94406.htm">www.planalto.gov.br/ccivil_03/decreto/1980-1989/D94406.htm</a>
<b>Technical Note (<i>Nota técnica</i>)</b>		
386/2013/CGLNRS/ 2013 DPR/SERES/MEC		<a href="http://portal.mec.gov.br/index.php?option=com_docman&amp;view=download&amp;alias=17476-nt-n386-2013-rep-regularidade-instituicoes&amp;category_slug=maio-2015-pdf&amp;Itemid=30192">http://portal.mec.gov.br/index.php?option=com_docman&amp;view=download&amp;alias=17476-nt-n386-2013-rep-regularidade-instituicoes&amp;category_slug=maio-2015-pdf&amp;Itemid=30192</a>
<b>Resolutions (<i>Resoluções</i>)</b>		
CFF 467	November 28, 2007	<a href="http://www.cff.org.br/userfiles/file/resolucoes/467.pdf">www.cff.org.br/userfiles/file/resolucoes/467.pdf</a>
CFF 477	May 28, 2008	<a href="http://www.cff.org.br/userfiles/file/resolucoes/477.pdf">www.cff.org.br/userfiles/file/resolucoes/477.pdf</a>
CFF 546	July 21, 2011	<a href="http://www.cff.org.br/userfiles/file/resolucoes/546.pdf">www.cff.org.br/userfiles/file/resolucoes/546.pdf</a>
CFF 555	November 30, 2011	<a href="http://www.cff.org.br/userfiles/file/resolucoes/555.pdf">www.cff.org.br/userfiles/file/resolucoes/555.pdf</a>
CFF 581	August 29, 2013	<a href="http://www.cff.org.br/userfiles/file/resolucoes/581.pdf">www.cff.org.br/userfiles/file/resolucoes/581.pdf</a>
CFF 582	August 29, 2013	<a href="http://www.cff.org.br/userfiles/file/resolucoes/582.pdf">www.cff.org.br/userfiles/file/resolucoes/582.pdf</a>
CFF 585	August 29, 2013	<a href="http://www.cff.org.br/userfiles/file/resolucoes/585.pdf">www.cff.org.br/userfiles/file/resolucoes/585.pdf</a>
CFF 586	August 29, 2013	<a href="http://www.cff.org.br/userfiles/file/noticias/Resolu%C3%A7%C3%A3o586_13.pdf">www.cff.org.br/userfiles/file/noticias/Resolu%C3%A7%C3%A3o586_13.pdf</a>
CFF 357	April 20, 2001	<a href="http://www.cff.org.br/userfiles/file/resolucoes/357.pdf">www.cff.org.br/userfiles/file/resolucoes/357.pdf</a>
CFN 304	February 26, 2003	<a href="http://www.cfn.org.br/novosite/pdf/res/2000_2004/res304.pdf">www.cfn.org.br/novosite/pdf/res/2000_2004/res304.pdf</a>
CFN 402	July 30, 2007	<a href="http://www.cfn.org.br/novosite/pdf/res/2007/res402.pdf">www.cfn.org.br/novosite/pdf/res/2007/res402.pdf</a>
CNE/CES 2	February 19, 2002	<a href="http://portal.mec.gov.br/cne/arquivos/pdf/CES022002.pdf">http://portal.mec.gov.br/cne/arquivos/pdf/CES022002.pdf</a>
CNS 87	November 21, 2008	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/anvisa/2008/res0087_21_11_2008.html">http://bvsmms.saude.gov.br/bvs/saudelegis/anvisa/2008/res0087_21_11_2008.html</a>
COFFITO 380	November 3, 2010	<a href="http://www.crefito3.org.br/dsn/pdfetica/Res%20Coffito%20380-2010%20-%20Pr%20C3%A1ticas%20Integrativas.pdf">www.crefito3.org.br/dsn/pdfetica/Res%20Coffito%20380-2010%20-%20Pr%20C3%A1ticas%20Integrativas.pdf</a>
RDC 44	August 17, 2009	<a href="http://cfo.org.br/wp-content/uploads/2010/02/180809_rdc_44.pdf">http://cfo.org.br/wp-content/uploads/2010/02/180809_rdc_44.pdf</a>
RDC 269	September 22, 2005	<a href="http://coffito.gov.br/nsite/wp-content/uploads/2016/08/resolucao-rdc-n-269-2005-ingesto-diria-recomendada-idr-de-protenas-vitaminas-e-minerais.pdf">http://coffito.gov.br/nsite/wp-content/uploads/2016/08/resolucao-rdc-n-269-2005-ingesto-diria-recomendada-idr-de-protenas-vitaminas-e-minerais.pdf</a>
RDC 338	May 6, 2004	<a href="http://bvsmms.saude.gov.br/bvs/saudelegis/cns/2004/res0338_06_05_2004.html">http://bvsmms.saude.gov.br/bvs/saudelegis/cns/2004/res0338_06_05_2004.html</a>

CFF = Conselho Federal de Farmácia, CFN = Conselho Federal de Nutricionistas, CNE/CES = Conselho Nacional de Educação / Câmara de Educação Superior, CNS = Conselho Nacional de Saúde, COFFITO = Conselho Federal de Fisioterapia e Terapia Ocupacional, RDC = Resolução da Diretoria Colegiada.

Supplementary material for Melo AC, Galato D, Maniero HK, Frade JCQP, Palhano TJ, Silva WB, et al. Pharmacy in Brazil: progress and challenges on the road to expanding clinical practice. *Can J Hosp Pharm.* 2017;70(5):381-90.

**Appendix 2 (part 1 of 3):** Extract from competency matrix for clinical pharmacist practice. © 2016 Brazilian Federal Council of Pharmacy. Translation from original Portuguese. Reproduced with permission.

Competency Area and Key Actions	Skills/Performance/Tasks
<b>3.1: Competency area: Family and community care</b>	
<i>Identify and evaluate community health demand</i>	Identify and interview key informants Use and analyze data from available health services information systems, as well as the health demands met and not met Define, estimate, and interpret health indicators Conduct studies of epidemiological surveillance, use of medicines, and pharmacovigilance Identify patient safety–related risks, aiming at the development of preventive and corrective actions Provide situational diagnosis of health
<i>Plan, execute, and evaluate public health actions</i>	Plan, execute and evaluate actions in line with public policy Identify, evaluate, and apply information in evidence-based health to help decision-making process Develop and/or participate in the promotion, protection, and recovery of health, and the prevention of diseases and other health problems in the home environment, at work, or in the territory/community, such as tracking activities, health education, patient safety and the rational use of medicines, vaccination campaigns, among others Develop intersectoral actions, integrating projects and social support networks focused on the development of comprehensive care Perform active search for and notification of diseases and reportable diseases, as well as other health problems and situations of local importance Develop clinical and therapeutic protocols, standard operating procedures, and other documents Participate in commissions, committees, and councils (technical / social control) Promote and/or participate in audits of processes Develop actions in pharmacovigilance, technical surveillance, and hemovigilance Build partnerships with other stakeholders in order to collude, agree, and carry out intersectoral action Assess health technologies Document, systematically monitor, and evaluate the actions of public health, through indicators Modify actions and processes in public health Promote community participation and pharmacists in social control and local management Disclose actions and results in public health
<b>3.2: Competency area: Patient care</b>	
<i>Receive patient</i>	Identify the needs, in a humanistic way, taking responsibility for continuity of care and enabling the establishment of patient/professional relationships/service Review and proceed to patient risk stratification Identify situations requiring pharmacist intervention, based on the defined criteria, and provide continuity of health care Identify alerts for patient referrals and refer to another professional or health service as required Document the patient encounter (collection of information)
<i>Identify the patient's needs and problems in health</i>	Do pharmaceutical anamnesis (i.e., procedure for collecting data about patients, performed by a pharmacist, through an interview, in order to know their health history, elaborate the pharmacotherapeutic profile, and identify their health-related needs) Check clinical parameters, through realization of semiotechnique, rapid tests, the application and interpretation of clinical laboratory tests and pharmacokinetic parameters Assess risk and vulnerability of the patient Assess pharmacotherapy, considering the needs, access, effectiveness, safety, and convenience, as well as the legal and technical aspects of prescription Evaluate previous experiences, medication-use process, and therapeutic itineraries of patients Analyze the information by clinical reasoning based on scientific evidence, to identify signs and symptoms characteristic of self-limited health conditions, other health conditions not controlled or that require diagnosis, as well as adverse events related to medicines Communicate effectively to the patient and, where relevant, with the caregiver, family, and other professionals, the needs and health problems Document the needs and health problems

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Competency Area and Key Actions	Skills/Performance/Tasks
<i>Develop health care plan</i>	Set in line with public policy the type of health care: providing pharmaceutical services, to produce a matrix support for health care and/or refer the patient to another health professional or service Select conducts (e.g., selection of products as pharmacological approaches, or other interventions, such as a selection of non-pharmacological therapies as well as referral to other professional services, requesting patient exams for the patient, family, and community) based on scientific evidence in order to address the needs and/or problems health identified Build the care plan agreed with the patient and articulate with the health care team Contribute or participate in the decision-making team on pharmacotherapy
<i>Perform interventions set out in the care plan</i>	Refer patients for care from another health professional, in coordination with the health system Provide screening health Promote and do health education Dispense medicines and other health products Manage self-limited health problems (responsible self-medication) Prescribe pharmacological measures, non-pharmacological and other interventions related to health care Provide therapeutic drug monitoring Perform medication reconciliation Provide medication review Provide disease management Manage medication therapy Determine clinical parameters Administer medications and vaccines Match the prescription, medicine use, and patient's routine (drug scheduling), guide and/or organize the medicines Make small bandages Communicate effectively to the patient and, where relevant, to the caregiver, family, and other professionals, the relevant news regarding treatment Document health care interventions
<i>Evaluate the results of interventions</i>	Check the results and, where appropriate, revise the care plan and establish new clinical conducts Assess the impact of interventions, considering indicators
<b>3.3: Competency area: Organization and management of services, professional and personal development for health care provision</b>	
<i>Recognize and evaluate the organization of health services and their integration with the health care networks</i>	Analyze the normative organization and structural policy Map and examine health care networks Perform territorialization and mapping in health Identify potentialities of intersectoral action Evaluate work processes, health services, organization of health care networks
<i>Perform communication and management of health information technology, as well as do work with cultural competence</i>	Understand and develop effective communication with patients, family, caregiver, community, other health care professionals, among others Manage conflicts Establish empathy and bond Perform effective communication in difficult situations Know and use information technology in pharmaceutical services Know and establish the strategies for database searching Evaluate, develop, evaluate and apply materials for health education Disseminate information and knowledge Act, taking into account socioeconomic, political, cultural, environmental, ethnic and racial aspects, gender identity, sexual orientation, the needs of society as well as regional characteristics

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<b>Competency Area and Key Actions</b>	<b>Skills/Performance/Tasks</b>
<i>Manage people</i>	Motivate and manage people taking into account socioeconomic, political, cultural, environmental, ethnic, racial, gender identity, sexual orientation, society's needs and regional characteristics Organize time and schedule Lead and work as a team Set targets/indicators for processes of people management Mediate and manage conflicts
<i>Develop ethical and legal behaviours, as well as professional responsibility</i>	Know, respect and act in accordance with legal, technical, ethical and bioethical principles involved in health care provision
<i>Manage administrative and technical processes in health care</i>	Identify demands/needs Promote security and certifying actions for quality and safety of processes Develop services, considering socioeconomic, political, cultural, environmental, ethnic and racial aspects, gender identity, sexual orientation, the needs of society as well as regional characteristics Plan and execute the management of projects and processes committed to sustainability and environmental responsibility Manage residues Promote an effective and safe working environment Document process
<i>Manage one own's practice (knowledge and continuing education)</i>	Identify gaps in knowledge Know and establish the strategies for database searching Provide evidence-based critical analysis of information Develop lifelong learning practices Produce and disseminate information and knowledge Know, apply and adapt methodologies of teaching and learning, and its assessments in professional practice Promote research and innovation in the healthcare area Develop the ability to self-learning, self-evaluation and self-management
<i>Manage public health policies</i>	Understand and interpret public policies Participate in the consultative and deliberative processes of policies elaboration Formulate, implement and evaluate public policies