

Comparison of Specialty-Specific Systems-Based Practice (SBP) Milestones											
Specialty	Domain	Current SBP				Domain	Future SBP - Milestones 2.0				
Allergy/ Immunology	Resource use PS	Utilizes/accesses outside resources. Demonstrates awareness of and accommodation to circumstances affecting patient care, including the patient's financial resources and other factors that can affect health care delivery and quality. Understands the basics of patient safety and clinical risk management, with emphasis on avoidance of medical errors. Uses technology and external resources to accomplish safe and effective health care delivery. — Systems-based Practice				PS QI	Systems-Based Practice 1: Patient Safety and Quality Improvement				
		Level 1	Level 2	Level 3	Level 4		Level 5	Level 1	Level 2	Level 3	Level 4
		<ul style="list-style-type: none"> Infrequently (<25% of the time) demonstrates proficiency for all aspects expected of a graduating resident, fellow, or junior independent practitioner 	<ul style="list-style-type: none"> Inconsistently (25-75% of the time) demonstrates proficiency for all aspects expected of a graduating resident, fellow, or junior independent practitioner 	<ul style="list-style-type: none"> Usually (75-90% of the time) demonstrates proficiency for all aspects expected of a graduating resident, fellow, or junior independent practitioner 	<ul style="list-style-type: none"> Constantly (>90% of the time) demonstrates proficiency for all aspects expected of a graduating resident, fellow, or junior independent practitioner 	<ul style="list-style-type: none"> Demonstrates consistency and proficiency beyond expectations for a graduating resident, fellow, or junior independent practitioner 	<ul style="list-style-type: none"> Demonstrates knowledge of common patient safety events 	<ul style="list-style-type: none"> Identifies system factors that lead to patient safety events 	<ul style="list-style-type: none"> Participates in analysis of patient safety events (simulated or actual) 	<ul style="list-style-type: none"> Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual) 	<ul style="list-style-type: none"> Actively engages teams and processes to modify systems to prevent patient safety events
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							<ul style="list-style-type: none"> Demonstrates knowledge of basic quality improvement methodologies and metrics 	<ul style="list-style-type: none"> Demonstrates knowledge of and participates in local quality improvement initiatives 	<ul style="list-style-type: none"> Demonstrates the ability to identify and develop a quality improvement project or advance an existing project 	<ul style="list-style-type: none"> Demonstrates the ability to implement or assess quality improvement initiatives 	<ul style="list-style-type: none"> Independently creates, implements, and assesses quality improvement initiatives
Allergy/ Immunology						CC	Systems-Based Practice 2: System Navigation for Patient-Centered Care				
							Level 1	Level 2	Level 3	Level 4	Level 5
							<ul style="list-style-type: none"> Demonstrates knowledge of care coordination 	<ul style="list-style-type: none"> Coordinates care of patients in routine clinical situations effectively using the roles of interprofessional teams 	<ul style="list-style-type: none"> Coordinates care of patients in complex clinical situations effectively using the roles of interprofessional teams 	<ul style="list-style-type: none"> Role models effective coordination of patient-centered care among different disciplines and specialties 	<ul style="list-style-type: none"> Analyzes the process of care coordination and leads in the design and implementation of improvements
								<ul style="list-style-type: none"> Identifies key elements for safe and effective transitions of care and hand-offs 	<ul style="list-style-type: none"> Performs safe and effective transitions of care/hand-offs in routine clinical situations 	<ul style="list-style-type: none"> Performs safe and effective transitions of care/hand-offs in complex clinical situations 	<ul style="list-style-type: none"> Role models or improves safe and effective transitions of care/hand-offs within and across health care delivery systems
Allergy/ Immunology						HC Systems	Systems-Based Practice 3: Physician Role in Health Care Systems				
							Level 1	Level 2	Level 3	Level 4	Level 5
								<ul style="list-style-type: none"> Identifies and describes how components of a complex health care system are interrelated, and how this impacts patient care 	<ul style="list-style-type: none"> Discusses how individual practice affects the broader system 	<ul style="list-style-type: none"> Uses various components of the complex health care system to provide efficient and effective patient care and transition of care 	<ul style="list-style-type: none"> Advocates for or leads systems change that enhances high-value, efficient, and effective patient care and transition of care
							<ul style="list-style-type: none"> Describes basic health payment systems and practice models 	<ul style="list-style-type: none"> Delivers care with consideration of each patient's payment model 	<ul style="list-style-type: none"> Engages with patients in shared decision making informed by each patient's payment models 	<ul style="list-style-type: none"> Advocates for patient care needs with consideration of the limitations of the patient's payment model 	<ul style="list-style-type: none"> Participates in health policy advocacy activities
Allergy/ Immunology						Population Health	Systems-Based Practice 4: Community and Population Health				
							Level 1	Level 2	Level 3	Level 4	Level 5
							<ul style="list-style-type: none"> Demonstrates knowledge of population or community health needs and disparities 	<ul style="list-style-type: none"> Identifies specific population or community health needs and inequities for the local population 	<ul style="list-style-type: none"> Accesses local resources to meet the needs of a specific patient population or community 	<ul style="list-style-type: none"> Participates in changing and adapting practice to provide for the needs of specific populations or communities 	<ul style="list-style-type: none"> Leads innovations to advocate for specific populations or communities with health care inequities

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Dermatology	Teams	SBP2. Works effectively within an interprofessional team					CC	Systems-Based Practice 2: System Navigation for Patient-Centered Care				
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	PS		Identifies members of the team who coordinate patient care Describes own role as member of the health care team	Uses and consults with other health care providers in coordination of patient care Appropriately communicates and coordinates care with the primary care and/or referral provider(s) Describes unique contributions (knowledge, skills, and attitudes) of other health care professionals, and seeks their input for appropriate issues Describes the use of checklists and briefings to prevent adverse events in health care; recognizes the roles of team members and participates in briefings	Delegates tasks appropriately to members of the health care team Attends and contributes to academic department/division retreats (or similar organizational venue), as well as to clinic team/staff meetings at participating sites Facilitates checklist-guided briefings (e.g., pre-procedure timeouts) in health care activities	Demonstrates how to manage, use, and coordinate the inter-professional team Participates in an interdisciplinary team meeting for clinic or program improvement	Leads an interdisciplinary team	Demonstrates knowledge of care coordination Identifies key elements for safe and effective transitions of care and hand-offs Demonstrates knowledge of population and community health needs and disparities	Coordinates care of patients in routine clinical situations effectively using the roles of the interprofessional teams Performs safe and effective transitions of care/hand-offs in routine clinical situations Identifies specific population and community health needs and inequities for their local population	Coordinates care of patients in complex clinical situations effectively using the roles of their interprofessional teams Performs safe and effective transitions of care/hand-offs in complex clinical situations Uses local resources effectively to meet the needs of a patient population and community	Leads effective coordination of patient-centered care among different disciplines and specialties Advocates for safe and effective transitions of care/hand-offs within and across health care delivery systems including outpatient settings Participates in changing and adapting practice to provide for the needs of specific populations	Analyzes the process of care coordination and leads in the design and implementation of improvements Improves quality of transitions of care within and across health care delivery systems to optimize patient outcomes Leads innovations and advocates for populations and communities with health care inequities
Dermatology	PS	SBP3. Improves health care delivery by identifying system errors and implementing potential systems solutions Advocates for quality patient care and optimal patient care systems					HC Systems	Systems-Based Practice 3: Physician Role in Health Care Systems				
		Has not Achieved Level 1	Level 1	Level 2	Level 3	Level 4		Level 5	Level 1	Level 2	Level 3	Level 4
			Articulates understanding of the limitations of the health care system and potential for systems errors Articulates understanding of institutional risk management resources available Begins to identify the social/governmental services necessary for vulnerable populations, including determination of eligibility for services and delivery of some aspects of care Begins to advocate for optimal patient care in the setting of interdisciplinary interactions (e.g., discussions with insurance companies or care providers in other specialties)	Participates in discussion during conferences that highlight systems errors Articulates understanding of the intersection of the legal system and health care system in the context of medical errors Consistently identifies the social/governmental services necessary for vulnerable populations, including determination of eligibility for services and delivery of some aspects of care Consistently advocates for optimal patient care in the setting of interdisciplinary interactions	Leads discussion during conferences that highlight systems errors Articulates understanding of the legal system and health care system in the context of medical errors Consistently identifies the social/governmental services necessary for vulnerable populations, including determination of eligibility for services and delivery of some aspects of care Consistently advocates for optimal patient care in the setting of interdisciplinary interactions	Consistently encourages open and safe discussion of error, and begins to identify and analyze error events	Consistently encourages open and safe discussion of errors, and characteristically identifies and analyzes error events, habitually approaching medical errors with a system solution methodology Actively and routinely engages with teams and processes through which systems are modified to prevent medical errors Advocates to improve patient care provided by health care, social, community, and governmental systems, including for vulnerable populations	Identifies key components of the complex health care system Describes basic health payment systems and practice models Identifies basic practice management knowledge domains for effective transition to practice	Describes how components of a complex health care system are interrelated, and how this impacts patient care Delivers care with consideration of each patient's payment model Describes core administrative knowledge needed for transition to practice	Discusses how individual practice affects the broader system Engages with patients in shared-decision making, informed by each patient's payment models Demonstrates use of information technology required for medical practice	Manages various components of the complex health care system to provide efficient and effective patient care Advocates for patient care needs with consideration of the limitations of each patient's payment model Analyzes individual practice patterns and professional requirements in preparation for practice	Advocates for or leads systems change that enhances high-value, efficient, and effective patient care Participates in health policy advocacy activities Educates others to prepare them for transition to practice

		VERSION BY LU14											
Dermatology	HC Costs	SBP4. Practices cost-conscious care (for patients and populations)											
		Has not Achieved Level 1	Level 1	Level 2	Level 3	Level 4	Level 5						
			Articulates awareness of health care costs	Demonstrates knowledge of how a patient's health care is paid for, and how this affects the patient's care Articulates awareness of costs for common diagnostic or therapeutic tests, including the cost of performing and interpreting skin biopsies Considers cost of medical and surgical therapies, and incorporates this into therapy decisions and discussions with the patient Demonstrates awareness of minimizing unnecessary care, including tests, procedures, therapies, and ambulatory or hospital encounters Usually applies principles of coding (ICD-9/10) and reimbursement (E&M levels/procedures) appropriate to medical record documentation	Articulates awareness of common socio-economic barriers that impact patient care Articulates understanding of how cost-benefit analysis is applied to patient care (i.e., via principles of screening tests and the development of clinical guidelines) Identifies the role of various health care stakeholders, including providers, commercial and government payers, and pharmaceutical industry and medical device companies, and their varied impact on the cost of and access to health care Consistently applies principles of coding (ICD-9/10) and reimbursement (E&M levels/procedures) appropriate to medical record documentation Identifies and minimizes unnecessary care, including tests, procedures, therapies, and ambulatory or hospital encounters	Articulates an awareness of current debates/issues of health care financing and how it will affect patients, providers, third party payers, and other stakeholders Identifies inherent biases of interactions with pharmaceutical and medical device industries Demonstrates the incorporation of cost-awareness principles into standard clinical judgments and decision-making	Demonstrates the incorporation of cost-awareness principles into complex clinical scenarios						
Diagnostic Radiology	QI	SBP1: Quality Improvement (QI)						PS					
		Has not Achieved Level 1	Level 1	Level 2	Level 3	Level 4	Level 5						
			Describes departmental QI initiatives Describes the departmental incident/occurrence reporting system	Incorporates QI into clinical practice Participates in the departmental incident/occurrence reporting system	Identifies and begins a systems-based practice project incorporating QI methodology	Completes a systems-based practice project as required by the ACGME Review Committee Describes national radiology quality programs (e.g., National Radiology Data Registry, accreditation, peer-review)	Leads a team in the design and implementation of a QI project Routinely participates in root cause analysis						
Systems-Based Practice 1: Patient Safety													
		Level 1	Level 2	Level 3	Level 4	Level 5							
		Demonstrates knowledge of common patient safety events Demonstrates knowledge of how to report patient safety events	Identifies system factors that lead to patient safety events Reports patient safety events through institutional reporting systems (simulated or actual)	Participates in analysis of patient safety events (simulated or actual) Participates in disclosure of patient safety events to patients and families (simulated or actual)	Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual) Discloses patient safety events to patients and families (simulated or actual)	Actively engages teams and processes to modify systems to prevent patient safety events Role models or mentors others in the disclosure of patient safety events							
Diagnostic Radiology	HC Costs Revenue	SBP2: Health care economics						QI					
		Has not Achieved Level 1	Level 1	Level 2	Level 3	Level 4	Level 5						
			Describes the mechanisms for reimbursement, including types of payors	States relative cost of common procedures	Describes the technical and professional components of imaging costs	Describes measurements of productivity (e.g., RVUs)	Describes the radiology revenue cycle						
Systems-Based Practice 2: Quality Improvement													
		Level 1	Level 2	Level 3	Level 4	Level 5							
		Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes local quality improvement initiatives	Participates in local quality improvement initiatives	Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	Creates, implements, and assesses quality improvement initiatives at the institutional or community level							
Diagnostic Radiology								CC					
		SBP3: System Navigation for Patient-Centered Care											
		Level 1	Level 2	Level 3	Level 4	Level 5							
		Demonstrates knowledge of care coordination in radiology imaging/procedures Identifies key elements for safe and effective transitions of care and hand-offs Demonstrates knowledge of population and community health needs and disparities	Coordinates care of patients in routine radiology imaging/procedures effectively using the roles of interprofessional teams Performs safe and effective transitions of care/hand-offs in routine clinical situations Identifies specific population and community health needs and inequities for their local population	Coordinates care of patients in complex radiology imaging/procedures effectively using the roles of interprofessional teams Performs safe and effective transitions of care/hand-offs in complex clinical situations Identifies local resources available to meet the needs of a patient population and community	Role models effective coordination of patient-centered care among different disciplines and specialties Role models safe and effective transitions of care/hand-offs Participates in adapting the practice to provide for the needs of specific populations (actual or simulated)	Analyzes the process of care coordination and leads in the design and implementation of improvements Improves quality of transitions of care to optimize patient outcomes Leads innovations and advocates for populations and communities with health care inequities							

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Neurological Surgery	HC Systems	Systems-Based Practice 3: Health Care Systems Awareness				
		Level 1 Describes principles of US health payment systems	Level 2 Analyzes how personal practice affects the health care system (e.g. test ordering, length of stay, readmissions)	Level 3 Seeks information about neurosurgical career options and identifies professional mentor(s)	Level 4 Prepares for transition to practice (e.g. information technology, risk management, billing and coding, financial, personnel)	Level 5 Collaborates with nursing and administrative teams to promote high value, quality care within a health care system
Neurology	HC Costs and Risk	Systems thinking, including cost and risk effective practice – Systems-based Practice				
		Level 1 • Describes basic cost and risk implications of care	Level 2 • Describes cost and risk benefit ratios in patient care	Level 3 • Makes clinical decisions that balance cost and risk benefit ratios	Level 4 • Incorporates available quality measures in patient care	Level 5 • Engages in scholarly activity regarding cost- and risk-effective practice
Neurology	Teams	Work in inter-professional teams to enhance patient safety – Systems-based Practice				
		Level 1 • Describes team members' roles in maintaining patient safety	Level 2 • Identifies and reports errors and near-misses	Level 3 • Describes potential sources of system failure in clinical care such as minor, major, and sentinel events	Level 4 • Participates in a team-based approach to medical error analysis	Level 5 • Engages in scholarly activity regarding error analysis and patient safety
Nuclear Medicine	Informatics	Computer Systems – Systems-based Practice				
		Level 1 • Accesses clinical computer systems; is familiar with word processing and spreadsheet programs	Level 2 • Retrieves basic patient information from the electronic medical record; is able to use the basic functions of picture archiving and communication system (PACS) and voice recognition systems • Understands Health Insurance Portability and Accountability Act (HIPAA) policies and appropriate use concepts	Level 3 • Retrieves complex patient information from the electronic medical record; is able to use the advanced functions of PACs and voice recognition systems	Level 4 • Is familiar with the basic functions of the billing systems	Level 5 • Recommends changes to computer systems/records to provide additional useful functionality
Nuclear Medicine	Costs and Revenues	Economics – Systems-based Practice				
		Level 1 • Has a basic understanding of the advantages and disadvantages of different payment systems	Level 2 • Has a basic understanding of the economics of inpatient vs. outpatient care, and the impact of quality improvement incentives • Develops understanding of relative cost per procedure	Level 3 • Has a basic practical understanding of the pre-certification process, radiology benefits managers, structured computer-based order entry systems, and Medicare/Medicaid procedure and report requirements	Level 4 • Has an advanced practical understanding of the pre-certification process, radiology benefits managers, structured computer-based order entry systems, and Medicare/Medicaid procedure and report requirements	Level 5 • Has a basic understanding of current state and national health care policies and their implications
Obstetrics and Gynecology	PS	Patient Safety and Systems Approach to Medical Errors: Participate in identifying system errors and implementing potential systems solutions – Systems-based Practice				
		Level 1 Recognizes limitations and failures of a team approach (e.g. hand-offs, miscommunication) in health care as the leading cause of preventable patient harm	Level 2 Demonstrates knowledge of institutional surveillance systems to monitor for patient safety (e.g., surgical site infection, medical error reporting) Participates in "time-out" Appropriately utilizes check lists to promote patient safety (e.g., medication reconciliation) Demonstrates knowledge of the epidemiology of medical errors and the differences between near misses, medical errors, and sentinel events	Level 3 Participates in patient safety reporting and analyzing systems Participates in team drills Demonstrates knowledge of national patient safety standards, as well as their use/application in the institution	Level 4 Reports errors and near-misses to the institutional surveillance system and superiors Recognizes when root cause analysis is necessary, and is capable of participating in root cause analysis Actively participates in quality improvement (QI)/patient safety projects	Level 5 Contributes to peer-reviewed medical literature Organizes and leads institutional QI/patient safety projects
Obstetrics and Gynecology	HC Costs Advocacy CC	Cost-effective Care and Patient Advocacy – Systems-based Practice				
		Level 1 Understands the importance of providing cost-effective care	Level 2 Is aware of common socioeconomic barriers that impact patient care Demonstrates an awareness of the need for coordination of patient care and patient advocacy	Level 3 Demonstrates the incorporation of cost awareness into clinical judgment and decision making Coordinates and advocates for needed resources to facilitate patient care (e.g., effective discharge planning)	Level 4 Practices cost-effective care (e.g., formulary drugs, generic drugs, tailoring of diagnostic tests) Analyzes patient care options from a quality of life (QOL)/cost-of-care perspective, and includes in patient counseling Effectively communicates within his or her own hospital/clinic to advocate for patient needs	Level 5 Participates in advocacy or health care legislation locally, regionally, or nationally Effectively communicates within health care systems to advocate for the needs of patient populations Demonstrates an understanding of the political economics of health care legislation locally, regionally, and nationally

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Understands the information conveyed by basic laboratory tests</p> </td> <td> <p>Knows common socio-economic barriers that impact patient care</p> <p>Describes how cost-benefit analysis is applied to patient care</p> <p>Knows relative costs of frequently used diagnostic and therapeutic interventions, such as CT vs. magnetic resonance imaging (MRI) scans, and the extent and ways they contribute to diagnostic accuracy and positive patient outcomes</p> <p><i>Example:</i> The physician 1. Understands that health care setting, insurance provider, and patient factors may impact on individual's choice between various clinical investigations 2. Orders appropriate laboratory tests and radiographic studies 3. 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Abbreviations:

PS- Patient Safety, QI- Quality Improvement, CC- Care Coordination, HC- Healthcare

Residency Education in Systems-Based Practice - Literature 2008-2020

		Mapping to Milestones	Feedback	Learner Assessment	Program Improvement	System Change	Clinical Competency Committee Function (CCC)	Curriculum	Systems Thinking	SBP1: PS/QI	SBP2: System Navigation for Pt Centered Care	SBP3: Physician Role in Health Care Systems
1	Purnell SM, Wolf L, Millar MM, Smith BK. A National Survey of Integrated Vascular Surgery Residents' Experiences With and Attitudes About Quality Improvement During Residency. <i>J Surg Educ</i> . 2020;77(1):158-165. doi:10.1016/j.jsurg.2019.09.003				Program Improvement					SBP1		
2	Kelleher M, Kinnear B, Wong SEP, O'Toole J, Warm E. Linking Workplace-Based Assessment to ACGME Milestones: A Comparison of Mapping Strategies in Two Specialties. <i>Teach Learn Med</i> . 2020;32(2):194-203. doi:10.1080/10401334.2019.1653764	Mapping										
3	Nahmias J, Smith B, Grigorian A, et al. Implementation of a High-Value Care Curriculum for General Surgery Residents [published online ahead of print, 2020 Mar 31]. <i>J Surg Educ</i> . 2020;S1931-7204(20)30072-6. doi:10.1016/j.jsurg.2020.03.006							Curriculum		SBP1		
4	Dolansky MA, Moore SM, Palmieri PA, Singh MK. Development and Validation of the Systems Thinking Scale. <i>J Gen Intern Med</i> . 2020 Aug;35(8):2314-2320. doi: 10.1007/s11606-020-05830-1. Epub 2020 Apr 27. PMID: 32342481; PMCID: PMC7403244.			Learner Assessment					Systems Thinking	SBP1	SBP2	SBP3
5	Orsino A, Ng S. Can adaptive expertise, reflective practice, and activity theory help achieve systems-based practice and collective competence?. <i>Can Med Educ J</i> . 2019;10(3):e55-e60. Published 2019 Jul 24.							Curriculum				
6	Samala RV, Hoeksema LJ, Colbert CY. A Qualitative Study of Independent Home Visits by Hospice Fellows: Addressing Gaps in ACGME Milestones by Fostering Reflection and Self-Assessment. <i>Am J Hosp Palliat Care</i> . 2019 Oct;36(10):885-892. doi: 10.1177/1049909119836218. Epub 2019 Mar 13. PMID: 30866641.			Learner Assessment				Curriculum			SBP2	SBP3

7	Lloyd RB, Park YS, Tekian A, Marvin R. Understanding Assessment Systems for Clinical Competency Committee Decisions: Evidence from a Multisite Study of Psychiatry Residency Training Programs [published online ahead of print, 2019 Dec 23]. <i>Acad Psychiatry.</i> 2019;10.1007/s40596-019-01168-x. doi:10.1007/s40596-019-01168-x	Mapping					CCC						
8	Srikumaran D, Tian J, Ramulu P, et al. Ability of Ophthalmology Residents to Self-Assess Their Performance Through Established Milestones. <i>J Surg Educ.</i> 2019;76(4):1076-1087. doi:10.1016/j.jsurg.2018.12.004		Feedback										
9	Lloyd RB, Park YS, Tekian A, Marvin R. Understanding Assessment Systems for Clinical Competency Committee Decisions: Evidence from a Multisite Study of Psychiatry Residency Training Programs [published online ahead of print, 2019 Dec 23]. <i>Acad Psychiatry.</i> 2019; doi:10.1007/s40596-019-0201168-x						CCC						
10	Rutz M, Turner J, Pettit K, Palmer MM, Perkins A, Cooper DD. Factors that Contribute to Resident Teaching Effectiveness. <i>Cureus.</i> 2019;11(3):e4290. Published 2019 Mar 21. doi:10.7759/cureus.4290				Program Improvement								
11	Blake GH, Kemmet RK, Jenkins J, Heidel RE, Wilson GA. Milestones as a Guide for Academic Career Development. <i>Fam Med.</i> 2019;51(9):760-765. doi:10.22454/FamMed.2019.109290		Feedback	Learner Assessment									
12	Hoffman CR, Green MS, Liu J, Iqbal U, Voralu K. Using operating room turnover time by anesthesia trainee level to assess improving systems-based practice milestones. <i>BMC Med Educ.</i> 2018;18(1):295. Published 2018 Dec 5. doi:10.1186/s12909-018-1409-6			Learner Assessment									SBP3
13	Gaeta T, Mahalingam G, Pyle M, Dam A, Visconti A. Using an alumni survey to target improvements in an emergency medicine training programme. <i>Emerg Med J.</i> 2018;35(3):189-191. doi:10.1136/emered-2017-206692				Program Improvement								
14	Perry M, Linn A, Munzer BW, et al. Programmatic Assessment in Emergency Medicine: Implementation of Best Practices. <i>J Grad Med Educ.</i> 2018;10(1):84-90. doi:10.4300/JGME-D-17-00094.1		Feedback	Learner Assessment	Program Improvement								
15	Radhakrishnan NS, Lo MC, Bishnoi R, et al. A resident-driven mortality case review innovation to teach and drive system-based practice improvements in the United States. <i>J Educ Eval Health Prof.</i> 2018;15:31. doi:10.3352/jeehp.2018.15.31					Systems Change		Curriculum		SBP1			SBP3

16	Edgar L, Roberts S, Yaghmour NA, et al. Competency Crosswalk: A Multispecialty Review of the Accreditation Council for Graduate Medical Education Milestones Across Four Competency Domains. <i>Acad Med.</i> 2018;93(7):1035-1041. doi:10.1097/ACM.0000000000002059			Learner Assessment								
17	Plack MM, Goldman EF, Scott AR, et al. Systems Thinking and Systems-Based Practice Across the Health Professions: An Inquiry Into Definitions, Teaching Practices, and Assessment. <i>Teach Learn Med.</i> 2018;30(3):242-254. doi:10.1080/10401334.2017.1398654			Learner Assessment			Curriculum	Systems Thinking				
18	Ghaderi KF, Schmidt ST, Drolet BC. Coding and Billing in Surgical Education: A Systems-Based Practice Education Program. <i>J Surg Educ.</i> 2017;74(2):199-202. doi:10.1016/j.jsurg.2016.08.011						Curriculum					SBP3
19	Williamson K, Moreira M, Quattromani E, Smith JL. Remediation Strategies for Systems-Based Practice and Practice-Based Learning and Improvement Milestones. <i>J Grad Med Educ.</i> 2017;9(3):290-293. doi:10.4300/JGME-D-16-00334.1		Feedback	Learner Assessment			Curriculum					
20	Grissom MO, Iroku-Malizi T, Peila R, Perez M, Philippe N. Mapping Residency Global Health Experiences to the ACGME Family Medicine Milestones. <i>Fam Med.</i> 2017;49(7):553-557..	Mapping										
21	Guarner J, Hill CE, Amukele T. Creation and Evaluation of a Laboratory Administration Curriculum for Pathology Residents. <i>Am J Clin Pathol.</i> 2017;148(4):368-373. doi:10.1093/ajcp/aqx085						Curriculum					SBP3
22	Leddy R, Lewis M, Ackerman S, et al. Practical Implications for an Effective Radiology Residency Quality Improvement Program for Milestone Assessment. <i>Acad Radiol.</i> 2017;24(1):95-104. doi:10.1016/j.acra.2016.08.018	Mapping		Learner Assessment			Curriculum		SBP1			
23	Nordhues HC, Bashir MU, Merry SP, Sawatsky AP. Graduate medical education competencies for international health electives: A qualitative study. <i>Med Teach.</i> 2017;39(11):1128-1137. doi:10.1080/0142159X.2017.1361518						Curriculum			SBP2	SBP3	
24	Prince LK, Little DJ, Schexneider KI, Yuan CM. Integrating Quality Improvement Education into the Nephrology Curricular Milestones Framework and the Clinical Learning Environment Review. <i>Clin J Am Soc Nephrol.</i> 2017;12(2):349-356. doi:10.2215/CJN.04740416			Learner Assessment			Curriculum		SBP1			
25	Williamson K, Moreira M, Quattromani E, Smith JL. Remediation Strategies for Systems-Based Practice and Practice-Based Learning and Improvement Milestones. <i>J Grad Med Educ.</i> 2017 Jun;9(3):290-			Learner Assessment					SBP1	SBP2	SBP3	

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26	Prince LK, Little DJ, Schexneider KI, Yuan CM. Integrating Quality Improvement Education into the Nephrology Curricular Milestones Framework and the Clinical Learning Environment Review. <i>Clin J Am Soc Nephrol.</i> 2017 Feb 7;12(2):349-356. doi: 10.2215/CJN.04740416. Epub 2016 Nov 10. PMID: 28174318; PMCID: PMC5293331.			Learner Assessment				Curriculum		SBP1		SBP3
27	D'Eon M. Systems thinking and structural competence in and for medical education. <i>Can Med Educ J.</i> 2017 Feb 24;8(1):e1-e5. PMID: 28344711; PMCID: PMC5344060.								Systems Thinking			
28	Gee DW, Phitayakorn R, Khatri A, Butler K, Mullen JT, Petrusa ER. A Pilot Study to Gauge Effectiveness of Standardized Patient Scenarios in Assessing General Surgery Milestones. <i>J Surg Educ.</i> 2016;73(6):e1-e8. doi:10.1016/j.jsurg.2016.08.012			Learner Assessment								
29	Prober AS, Mehan WA Jr, Bedi HS. Teaching the Healthcare Economics Milestones to Radiology Residents: Our Pilot Curriculum Experience. <i>Acad Radiol.</i> 2016;23(7):885-888. doi:10.1016/j.acra.2016.02.014							Curriculum				SBP3
30	Gillen JR, Ramirez AG, Farineau DW, et al. Using Interdisciplinary Workgroups to Educate Surgery Residents in Systems-Based Practice. <i>J Surg Educ.</i> 2016;73(6):1052-1059. doi:10.1016/j.jsurg.2016.05.017							Curriculum		SBP1		SBP3
31	Gee DW, Phitayakorn R, Khatri A, Butler K, Mullen JT, Petrusa ER. A Pilot Study to Gauge Effectiveness of Standardized Patient Scenarios in Assessing General Surgery Milestones. <i>J Surg Educ.</i> 2016 Nov-Dec;73(6):e1-e8. doi: 10.1016/j.jsurg.2016.08.012. PMID: 27886969.			Learner Assessment						SBP1		
32	Yazdani S, Hosseini F, Ahmady S. System based practice: a concept analysis. <i>J Adv Med Educ Prof.</i> 2016 Apr;4(2):45-53. PMID: 27104198; PMCID: PMC4827756.									SBP1	SBP2	SBP3
33	Mamtani M, Scott KR, DeRoos FJ, Conlon LW. Assessing EM Patient Safety and Quality Improvement Milestones Using a Novel Debate Format. <i>West J Emerg Med.</i> 2015;16(6):943-946. doi:10.5811/westjem.2015.9.27269			Learner Assessment			CCC	Curriculum		SBP1		
34	Gardner AK, Scott DJ, Choti MA, Mansour JC. Developing a comprehensive resident education evaluation system in the era of milestone assessment. <i>J Surg Educ.</i> 2015;72(4):618-624. doi:10.1016/j.jsurg.2014.12.007	Mapping		Learner Assessment								
35	Yuan CM, Prince LK, Oliver JD 3rd, Abbott KC, Nee R. Implementation of nephrology subspecialty curricular milestones. <i>Am J Kidney Dis.</i> 2015;66(1):15-22. doi:10.1053/j.ajkd.2015.01.020	Mapping					CCC					

36	Sakai T, Emerick TD, Patel RM. A retrospective review of required projects in systems-based practice in a single anesthesiology residency: a 10-year experience. <i>J Clin Anesth.</i> 2015;27(6):451-456. doi:10.1016/j.jclinane.2015.06.009					System Change		Curriculum				SBP3
37	Harrington DT, Miner TJ, Ng T, Charpentier KP, Richardson P, Cioffi WG. What Shape is Your Resident in? Using a Radar Plot to Guide a Milestone Clinical Competency Discussion. <i>J Surg Educ.</i> 2015;72(6):e294-e298. doi:10.1016/j.jsurg.2015.04.005		Feedback									
38	Chan EY, Deziel DJ, Orkin BA, Wool NL. Systems-based practice: learning the concepts using a teamwork competition model. <i>Am J Surg.</i> 2015;209(1):40-44. doi:10.1016/j.amjsurg.2014.08.034							Curriculum				
39	Pulcrano M, Chahine AA, Saratsis A, Divine-Cadavid J, Narra V, Evans SR. Putting residents in the office: an effective method to teach the systems-based practice competency. <i>J Surg Educ.</i> 2015;72(2):286-290. doi:10.1016/j.jsurg.2014.09.001							Curriculum				SBP3
40	Green M, Amad M, Woodland M. Innovative health systems projects. <i>Clin Teach.</i> 2015;12(1):17-21. doi:10.1111/tct.12218					Systems Change		Curriculum		SBP1		SBP3
41	Mamtani M, Scott KR, DeRoos FJ, Conlon LW. Assessing EM Patient Safety and Quality Improvement Milestones Using a Novel Debate Format. <i>West J Emerg Med.</i> 2015 Nov;16(6):943-6. doi: 10.5811/westjem.2015.9.27269. Epub 2015 Nov 12. PMID: 26594296; PMCID: PMC4651600.			Learner Assessment				Curriculum		SBP1	SBP2	SBP3
42	Choudhery S, Richter M, Anene A, et al. Practice quality improvement during residency: where do we stand and where can we improve?. <i>Acad Radiol.</i> 2014;21(7):851-858. doi:10.1016/j.acra.2013.11.021				Program Improvement							
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