UNIVERSITY OF MARYLAND, COLLABORATIVE PROGRAM FOR PRIMARY CARE EDUCATION

REFERENCE GUIDE TO COMPETENCY - BASED EVALUATION OF RESIDENTS

PATIENT CARE:

Residents must be able to provide family centered patient care that is developmentally appropriate, compassionate, and effective for the treatment of health problems and the promotion of health.

Please refer to the following benchmarks and list of potential assessment tools as you evaluate resident competence

Potential assessment tools used in evaluating competence:

Case-based module

• Chart stimulated recall

Checklist of live/recorded performance

Direct observation of benchmark

Global rating of live/recorded performance

Objective structured clinical examination (OSCE)

Patient/parent survey

Portfolio

Procedure log

Record review

Simulations and models

Standardized oral examination

Standardized patient examination

Written examination

Competency: Gather essential and accurate information about the patient.

Knowledge/Skills/Attitudes Benchmarks:

- Demonstrates knowledge of how to access adjunctive sources of information to the history obtained from the family (e.g. chart)
- Interviews patients with an appreciation for their developmental level and/or age
- Describes age-specific concerns in the approach to the physical examination
- Performs a complete history including a chief complaint, history of the present illness, past history, family history, social history and review of systems
- Performs a detailed and accurate physical examination
- Conveys an appreciation for the value of the caretaker's observations and judgments regarding the patient's health and illness
- Conveys an appreciation for the opportunity to be involved in the care of the patient

Competency: Make informed diagnostic and therapeutic decisions based on patient information, current scientific evidence, clinical judgment, and patient preference.

- Formulates and prioritizes a differential diagnosis based on patient information and/or current scientific evidence and/or sound clinical judgment
- Utilizes the appropriate laboratory tests and imaging studies to evaluate medical problems and interprets the results
- Synthesizes evidence in making diagnoses and therapeutic decisions
- Employs the therapeutic management of choice for a given working diagnosis
- Identifies and accesses available resources (medical literature, consultants) to support the chosen therapeutic path
- Recognizes limitations of the level of training and seeks help appropriately
- Utilizes subspecialty consultation appropriately
- Demonstrates responsibility and accountability for decisions
- Demonstrates compassion for the hardships faced by patients/families as a result of the laboratory or imaging studies ordered in the work-up
- Demonstrates sensitivity to the preferences of patients and their families when arriving at a management plan

Competency: Carry out patient management plans.

Knowledge/Skills/Attitudes Benchmarks:

- Defines the need for appropriate follow-up based on age, diagnosis, and psychosocial issues
- Counsels and educates patients and families regarding diagnosis and management plans
- Develops written patient instructions appropriate to the clinical situation and caregiver/patient comprehension
- Utilizes potential outcome measures for evaluating the effectiveness of the management plan (e.g. test of cure for STDs)
- Transfers information to another provider when necessary and appropriate

Competency: Prescribe and perform competently all medical procedures (invasive and non-invasive) considered essential for the scope of practice.

Knowledge/Skills/Attitudes Benchmarks:

- Demonstrates knowledge of the indications for procedures
- Demonstrates proficiency in performing procedures and maximizes patient comfort
- Accurately describes procedures to patients and caretakers in language that is appropriate to their educational, developmental, and emotional status
- Acknowledges the impact of procedures on patients and families during interactions with staff and with families

Competency: Counsel patients and families.

Knowledge/Skills/Attitudes Benchmarks:

- Provides accurate and up to date information to guide support patients/ families in making informed decisions
- Provides both good and bad news in a sensitive and professional manner
- Handles patient and family emotional response or calls in appropriate help as needed

Competency: Provide effective health maintenance and anticipatory guidance.

Knowledge/Skills/Attitudes Benchmarks:

- Provides appropriate health maintenance and anticipatory guidance/preventive measures based on age, gender, risk factors, and developmental stage
- Identifies appropriate community resources to address patient needs
- Discusses the indications for and the interpretation of recommended screening tests
- Demonstrates ability to perform age-appropriate screening tools for health maintenance (e.g. Mini Mental Status Exam or Denver Developmental Screening Test)

Competency: Use information technology to optimize patient care.

- Uses information technology to practice evidence-based medicine
- Uses information technology tools (e.g. PDA, interactive web sites, computer-based order entry system, hospital data bases) to enhance patient care

MEDICAL KNOWLEDGE:

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care and the education of others.

Please refer to the following benchmarks and list of potential assessment tools as you evaluate resident competence

Potential assessment tools used in evaluating competence:

- Case-based module
- Direct observation of benchmark
- Chart stimulated recall

- Standardized oral examination
- Record review
- Written examination

Competency: Demonstrate an investigatory and analytic approach to clinical problem solving and knowledge acquisition.

Knowledge/Skills/Attitudes Benchmarks:

- Demonstrates an open-minded and analytical approach to the acquisition and application of knowledge by
 utilizing evidence-based medicine skills to answer clinical questions, analyze the answers, and apply the relevant
 aspects to the care of patients
- Seeks and locates resources useful to secure information (e.g., attendings, faculty mentors, literature, electronic sources, group discussions, conferences, etc.)
- Initiates a discussion with the faculty preceptor at the beginning of the rotation to address prescribed as well as individual learning objectives
- Identifies areas for improvement of self-knowledge in clinical situations by seeking feedback from attendings and asking relevant clinical questions
- Implements strategies to improve knowledge based on feedback, performance on written examinations, and selfassessment

Competency: Know, apply, and teach the basic and clinically supportive sciences, which are appropriate to one's medical specialty. (For an outline of the expected knowledge base see separate curriculum)

- Accesses all available information to support clinical decision-making
- Interprets the principles of evidence-based medicine and statistics as they apply to clinical situations
- Applies knowledge with attention to clinical outcome, cost-effectiveness, risk-benefit, and patient preference
- Develops and maintains a willingness to be a life-long learner by querying the literature and texts on a regular basis, attending daily conferences, and pursuing answers to clinical questions
- Critically evaluates current medical information and scientific evidence and modifies knowledge base accordingly
- Attends and participates in all required conferences on a regular basis
- Teaches other residents and students in an organized, enthusiastic, and effective manner on a regular basis

PRACTICE-BASED LEARNING AND IMPROVEMENT:

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Please refer to the following benchmarks and lists of assessment tools as you evaluate resident competence

Potential assessment tools to evaluate resident competence:

- Case-based module
- Chart stimulated recall
- Checklist of live/recorded performance
- Direct observation of benchmark
- Global rating of live/recorded performance
- Objective structure clinical examination (OSCE)
 Written examination
- Patient/parent survey

- Procedure skills log
- Record review
- Simulations and models
- Standardized patient examination
- Standardized oral examination

Competency: Analyze practice experience and perform practice-based improvement activities using a systematic methodology.

Knowledge/Skills/Attitudes Benchmark:

- Develops and maintains a willingness to learn from errors
- Describes the process of practice assessment- from identifying key issues for improvement to analysis to implementing change, to analysis of change
- Utilizes the necessary resources to complete the process (e.g., individuals, staff, texts, etc.)
- Implements strategies, along with an interdisciplinary team, to improve patient care practice

Competency: Locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems.

Knowledge/Skills/Attitudes Benchmarks:

- Interprets the principles of evidence-based medicine and statistics by knowing the principles and statistical techniques necessary for these analyses (e.g., ARR, NNT, p values, risk ratios, meta-analyses, etc.)
- Locates search engines (e.g., Ovid, MD Consult) to effectively search the literature
- Values patient education as the foundation of compliance, and disease management and prevention
- Distills information to enhance patient and self-education

Competency: Obtain and use information about one's own population of patients and the larger population from which the patients are drawn.

Knowledge/Skills/Attitudes Benchmarks:

- Describes the epidemiology of disease in one's patient population including risk factors and public health issues
- Applies epidemiologic information to assess risk/prognosis and to assist in health maintenance and disease management

Competency: Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.

- Performs a critical appraisal of the literature utilizing basic biostatistical techniques and principles of evidencebased medicine
- Facilitates Journal Club, applying the principles of evidence-based medicine
- Completes a scholarly activity (e.g. basic science or clinical research project, literature review, conference presentation etc.)

Competency: Use information technology, peer review, and self-assessment to promote life-long learning.

Knowledge/Skills/Attitudes Benchmarks:

- Uses feedback to identify areas for improvement
- Seeks opportunities to strengthen deficits in knowledge/skills (e.g., specific electives, didactic opportunities, information technology resources, etc.)

Competency: Facilitate the learning of students and other health care professionals.

- Assesses educational needs of learners
- Assists learners in accessing information
- Demonstrates responsibility and leadership in engaging learners in the educational process

INTERPERSONAL/COMMUNICATION:

Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their patients families, and professional associates.

Please refer to the following benchmarks and list of assessment tools as you evaluate resident competence

Potential assessment tools used in the evaluation of competence:

- Direct observation of benchmark
- Checklist of live/recorded performance
- Global rating of live/recorded performance
- 360 degree evaluation

- Standardized patient examination
- Objective structured clinical examination (OSCE)
- Patient /parent survey

Competency: Communicate effectively to create and sustain a therapeutic relationship with patients and families.

Knowledge/Skills/Attitudes Benchmarks:

- Identifies the primary provider(s) of information
- Identifies self and other members of the health care team and explains role appropriately to patient and/or care givers/family members
- Communicates with patient/caregiver in the appropriate setting, by recognizing the logistics of the working environment (e.g., private areas, public areas, areas for interviewing, areas for physical examination, etc.)
- Demonstrates the ability to maintain a therapeutic relationship with patients over time
- Uses appropriate language at the proper developmental/educational level for the patient and/or caregivers/family members
- Elicits initial and interval histories from patients using effective verbal and non-verbal techniques (e.g., asks the appropriate type of question- open-ended, direct, leading- at various phases of the interview)
- Uses effective listening skills to elicit information
- Uses correct English in written and verbal communication
- Maintains comprehensive, timely, and legible medical records and correspondence
- Communicates effectively to maximize patient/caregiver/family understanding
- Facilitates, reflects, clarifies, confronts, and/or interprets at the appropriate time(s) in the patient encounter
- Provides effective patient/caregiver/family education in verbal and written form

Competency: Work effectively with others as a member or leader of a health care team or other professional group.

- Identifies and learns the names of health care team members
- Assumes the appropriate role on the team
- Communicates effectively and respectfully with other members of the health care team
- Facilitates team communication when in role of team leader
- Assumes the role of consultant where appropriate
- Provides constructive verbal and written feedback to other members of the health care team

PROFESSIONALISM:

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Please refer to the following benchmarks and list of potential assessment tools as you evaluate resident competence

Potential assessment tools used in determining competence:

- Case-based module
- Chart stimulated recall
- Checklist of live/recorded performance
- Direct observation of benchmark
- Global rating of live/recorded performance
- Objective structured clinical examination (OSCE)
- Patient/parent survey

- Portfolio
- Record review
- Simulations and models
- Standardized oral examination
- Standardized patient examination
- Written examination

Competency: Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that supercedes self-interest; accountability to patients, society, and the profession; and a commitment to excellence and on-going professional development.

Knowledge/Skills/Attitudes Benchmarks:

- Identifies important roles physicians play in society (e.g. school board members, public health administrators, among others)
- Discusses the role of peer review as it relates to professional accountability
- Demonstrates the defining attributes of the medical professional, including:
 - Acts with honesty and integrity (being truthful, keeping one's word, meeting commitments and being forthright in interactions with patients, peers, and supervisors)
 - Shows reliability and responsibility (being responsible for and accountable to others, admitting error, honoring, and completing assigned duties)
 - Shows respect for others in all spheres of contact and regard for others' worth and dignity
 - Provides compassion and empathy by listening attentively and responding humanely to concerns of patients and their families
 - Strives for self-improvement so as to provide the highest quality of health care through life-long learning and education
 - Indicates self- awareness and a knowledge of one's own limits by recognizing the need for guidance and supervision and through use of self-evaluation tools
 - Communicates and collaborates with others (members of the health care team and patient caregivers/families) to provide the best care for patients
 - Practices altruism and advocacy by displaying an unselfish regard for and devotion to the welfare of patients and their families
- Interacts with patients, staff, colleagues, and other health professionals in a respectful manner to include appropriate dress, verbal and non-verbal behavior
- Demonstrates a commitment to on-going professional development through regular attendance at conferences and reading medical literature
- Responds positively to constructive criticism by improving behavior and/or skills

Competency: Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.

- Recognizes ethical dilemmas and utilizes consultation from the hospital's ethics committee appropriately
- Adheres to the laws and rules governing the confidentiality of patient information
- Obtains proper informed consent from patient or family member/legal guardian, recognizing the situational need

for determining competence

Engages in ethical business practices

Competency: Demonstrate sensitivity and responsiveness to a diverse patient population, including, but not limited to diversity in gender, age, culture, race, religion, disabilities and sexual orientation.

- Recognizes the impact that characteristics such as culture, age, gender, and disability has on patient care, preferences/perceptions, and outcomes
- Demonstrates recognition of the cultural issues that can play an important role in how patients perceive the need for health care
- Considers the impact of disability on a patient's life and that of the family

SYSTEMS-BASED PRACTICE:

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Please refer to the following benchmarks and lists of assessment tools as you evaluate resident competence

Potential assessment tools in evaluating competence:

Case-based module

Portfolio

Chart stimulated recall

- Record review
- Direct observation of benchmark
- Written examination
- Global rating of live/recorded performance

Competency: Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.

Knowledge /Skills/Attitudes Benchmarks:

- Differentiates between various medical practices, including hospital and community based models, PPO, and HMO health care delivery systems
- Describes the methods by which individuals or hospitals can be reimbursed, including fee-for service, capitation, hospital DRGs, etc.
- Becomes familiar with documentation criteria for different levels of care

Competency: Practice cost-effective health care and resource allocation that does not compromise quality of care.

Knowledge/Skills/Attitudes Benchmarks:

- Demonstrates commitment to the practice of cost-effective medical care
- Considers cost/benefit analysis in providing clinical care
- Identifies factors that contribute to rising health care costs and strives to lessen where appropriate
- Recognizes resource limitation within the health care system

Competency: Advocate for quality patient care and assist patients in dealing with system complexities.

Knowledge/Skills/Attitudes Benchmarks:

- Recognizes potential conflicts of interest between the individual patients and their health care organizations
- Anticipates problems patients/caregivers may face in negotiating the health care system and advocates on the patient's behalf

Competency: Partner with health care managers and health care providers to assess, coordinate, and improve health care.

- Identifies and works with other health care professionals and organizations that may assist in a patient's care
- Functions as the coordinator of a health-care team to manage complex patient issues
- Recognizes health care team's impact on the system (e.g. keeping a sick patient out of the hospital/higher care institution).

Competency: Understand the reciprocal impact of personal professional practice, health care teams, and the health care organization on the community/society.

- Identifies ways in which a physician may interact with health-care professionals, health administrators, and community groups to positively impact the health and well being of one's community
- Gathers information about the community in which one works (e.g. demographics, and sociocultural beliefs and practices that affect health and disease)
- Identifies the natural history and epidemiology of major health problems in the community being served (e.g., discussing the literature on incidence, prevalence and expected course of common conditions encountered in the discipline)

PATIENT CARE

Resident:		Evaluator:	
Clinical Experience:		Dates:	
Key	to evaluation component (insert number in	the box adjacent to the competency which corresponds	to level of
com	petence achieved):		
1	= Below expected level		
2	= At expected level		
3	= Above expected level		
0	= Not observed		

Residents must be able to provide family centered patient care that is developmentally appropriate, compassionate, and effective for the treatment of health problems and the promotion of health.

Level	Assessment Tools	Competency
Achieved	(Enter tool used from list below)	
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Gather essential and accurate information about the patient.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Make informed diagnostic and therapeutic decisions based on patient information, current scientific evidence, clinical judgment, and patient preference.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Carry out patient management plans.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Prescribe and perform competently all medical procedures (invasive and non-invasive) considered essential for the scope of practice.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Counsel patients and families.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Provide effective health maintenance and anticipatory guidance.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Use information technology to optimize patient care.

 $\begin{aligned} & DO = Direct \ observation & RR = Record \ review \\ & CSR = Chart \ simulated \ recall & PSL = Procedure \ skills \ log \\ & CLP = Checklist \ of \ live/recorded \ performance & GR = Global \ rating \\ & PS = Patient \ survey & EX = Exam \end{aligned}$

MEDICAL KNOWLEDGE

Resident:		Evaluator:	
Clinical Experience:		Dates:	
Key 1	to evaluation component (insert number in th	e box adjacent to the competency which corresponds to level o	
comp	petence achieved):		
1	= Below expected level		
2	= At expected level		
3	= Above expected level		
0	= Not observed		

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care and the education of others.

Level	Assessment Tools	Competency
Achieved	(Enter tool used from list below)	
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Demonstrate an investigatory and analytic approach to clinical problem solving and knowledge acquisition.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Know, apply, and teach the basic and clinically supportive sciences, which are appropriate to one's medical specialty. (For an outline of the expected knowledge base see separate curriculum)

DO = Direct observation RR = Record review CSR = Chart simulated recall PSL = Procedure skills log CLP = Checklist of live/recorded performance GR = Global rating PS = Patient survey EX = Exam

PRACTICE-BASED LEARNING AND IMPROVEMENT

Resident:		Evaluator:	
Clinical Experience:		Dates:	
	ey to evaluation component (insert number in the box	udjacent to the competency which correspor	nds to level of
cor	mpetence achieved):		
1	= Below expected level		
2	= At expected level		
3	= Above expected level		
0	= Not observed		

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices.

Level	Assessment Tools	Competency
Achieved	(Enter tool used from list below)	
	[]DO []RR []CSR []PSL	Analyze practice experience and perform practice-based
	[]CLP[]GR[]PS []EX	improvement activities using a systematic methodology.
	[]Other	
	[]DO []RR []CSR []PSL	Locate, appraise, and assimilate evidence from scientific
	[]CLP []GR []PS []EX	studies related to their patients' health problems.
	[]Other	
	[]DO []RR []CSR []PSL	Obtain and use information about their own population of
	[]CLP []GR []PS []EX	patients and the larger population from which their patients are
	[]Other	drawn.
	[]DO []RR []CSR []PSL	Apply knowledge of study designs and statistical methods to
	[]CLP []GR []PS []EX	the appraisal of clinical studies and other information on
	[]Other	diagnostic and therapeutic effectiveness.
	[]DO []RR []CSR []PSL	Use information technology to manage information, access on-
	[]CLP []GR []PS []EX	line medical information; and support their own education.
	[]Other	
	[]DO []RR []CSR []PSL	Facilitate the learning of students and other health care
	[]CLP []GR []PS []EX	professionals.
	[]Other	

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INTERPERSONAL/COMMUNICATION

Resident:	Evaluator:
Clinical Experience:	Dates:
Key to evaluation component (insert numbe	r in the box adjacent to the competency which corresponds to level o
competence achieved):	
1 = Below expected level	
2 = At expected level	
3 = Above expected level	
0 = Not observed	

Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their patients families, and professional associates.

Level Achieved	Assessment Tools	Competency
Acmeved	(Enter tool used from list below)	
	[]DO []RR []CSR []PSL	Communicate effectively to create and sustain a therapeutic
	[]CLP []GR []PS []EX	relationship with patients and families.
	[] 360	
	[]Other	
	[]DO []RR []CSR []PSL	Work effectively with others as a member or leader of a health
	[]CLP []GR []PS []EX	care team or other professional group.
	[] 360	
	[]Other	

DO = Direct observation RR = Record review CSR = Chart simulated recall PSL = Procedure skills log CLP = Checklist of live/recorded performance GR = Global rating EX = Exam

PS = Patient survey

360 = 360-degree evaluation

PROFESSIONALISM

Resident:		Evaluator:	
Clinical Experience:		Dates:	
•	to evaluation component (insert number in petence achieved):	the box adjacent to the competency which corresponds to level of	
1	= Below expected level		
2	= At expected level		
3	= Above expected level		
0	= Not observed		

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Level Achieved	Assessment Tools (Enter tool used from list below)	Competency
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that supercedes self-interest; accountability to patients, society, and the profession; and a commitment to excellence and on-going professional development.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.
	[]DO []RR []CSR []PSL []CLP []GR []PS []EX []Other	Demonstrate sensitivity and responsiveness to a diverse patient population, including, but not limited to diversity in gender, age, culture, race, religion, disabilities and sexual orientation.

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SYSTEMS-BASED PRACTICE

Resident:		Evaluator:
Clinical Experience:		Dates:
•	<u> </u>	n the box adjacent to the competency which corresponds to level o
•	petence achieved):	
1	= Below expected level	
2	= At expected level	
3	= Above expected level	
0	= Not observed	

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Level	Assessment Tools	Competency
Achieved	(Enter tool used from list below)	
	[]DO []RR []CSR []PSL	Know how types of medical practice and delivery systems
	[]CLP []GR []PS []EX	differ from one another, including methods of controlling
	[]Other	health care costs and allocating resources.
	[]DO []RR []CSR []PSL	Practice cost-effective health care and resource allocation that
	[]CLP []GR []PS []EX	does not compromise quality of care
	[]Other	
	[]DO []RR []CSR []PSL	Advocate for quality patient care and assist patients in dealing
	[]CLP []GR []PS []EX	with system complexities
	[]Other	
	[]DO []RR []CSR []PSL	Partner with health care managers and health care providers to
	[]CLP []GR []PS []EX	assess, coordinate, and improve health care
	[]Other	
	[]DO []RR []CSR []PSL	Understand the reciprocal impact of personal professional
	[]CLP []GR []PS []EX	practice, health care teams, and the health care organization on
	[]Other	the community/society

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