The Pediatrics Milestone Project

A Joint Initiative of

The Accreditation Council for Graduate Medical Education and

The American Board of Pediatrics





The Pediatrics Milestone Project

The Milestones are designed only for use in evaluation of resident physicians in the context of their participation in ACGME accredited residency or fellowship programs. The Milestones provide a framework for the assessment of the development of the resident physician in key dimensions of the elements of physician competency in a specialty or subspecialty. They neither represent the entirety of the dimensions of the six domains of physician competency, nor are they designed to be relevant in any other context.

Pediatrics Milestones

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Milestone Reporting

This document presents milestones designed for programs to use in semi-annual review of resident performance and reporting to the ACGME. Milestones are knowledge, skills, attitudes, and other attributes for each of the ACGME competencies organized in a developmental framework from less to more advanced. The pediatrics milestones are designed to describe changes in observable attributes of the learner across the continuum of medical education from medical school through residency into practice. In the initial years of implementation, the Review Committee will examine milestone performance data for each program's residents as one element in the Next Accreditation System (NAS) to determine whether residents overall are progressing.

For each reporting period, review and reporting will involve selecting the level of milestones that best describes each resident's current performance level in relation to milestones. Milestones are arranged into levels (See the figure on page iv). Progressing from Level 1 to Level 5 is synonymous with moving from novice to expert. Selection of a level implies that the resident substantially demonstrates the milestones in that level, as well as those in lower levels.

Additional Notes

Level 3 is designed as the graduation *target* but does *not* represent a graduation *requirement*. Making decisions about readiness for graduation is the purview of the residency program director (See the Milestones FAQ for further discussion of this issue: "Can a resident/fellow graduate if he or she does not reach every milestone?"). Study of Milestone performance data will be required before the ACGME and its partners will be able to determine whether Level 3 milestones and milestones in lower levels are in the appropriate level within the developmental framework, and whether Milestone data are of sufficient quality to be used for high stakes decisions.

Answers to Frequently Asked Questions about the Milestones are available on the Milestones web page: http://www.acgme.org/acgmeweb/Portals/0/MilestonesFAQ.pdf.

A full report on the Pediatrics Milestone Project, including background information on each set of Milestones, is located at http://www.acqme.org/acqmeweb/Portals/0/PDFs/Milestones/320 PedsMilestonesProject.pdf.

The figure below presents an example set of milestones for one sub-competency in the same format as the milestone report worksheet. For each reporting period, a resident's performance on the milestones for each sub-competency will be indicated by:

- selecting the level of milestones that best describes that resident's performance in relation to the milestones or
- selecting the "Not yet Assessable" response option. This option should be used only when a resident has not yet had a learning experience in the sub-competency.

| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | |
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| encounters due to a lack of reflection on practice; does not understand the principles of quality improvement methodology or change management; is defensive when faced with data on performance improvement opportunities within one's practice | | Able to gain insight from reflection on individual patient encounters, but potential improvements are limited by a lack of systematic improvement strategies and team approach; is dependent upon external prompts to define improvement opportunities at the population level | Able to gain insight for improvement opportunities from reflection on both individual patients and populations; grasps improvement methodologies enough to apply to populations; is still reliant on external prompts to inform and prioritize improvement opportunities at the population level | Able to use both individual encounters and population data to drive improvement using improvement methodology; analyzes one's own data on a continuous basis, without reliance on external forces, to prioritize improvement efforts, and uses that analysis in an iterative process for improvement; is able to lead a team in improvement | In addition to demonstrating continuous improvement activities and appropriately utilizing quality improvement methodologies, thinks and acts systemically to try to use one's own successes to benefit other practices, systems, or populations; is open to analysis that at times requires course correction to optimize improvement | |
| level in lo | cting a response box in the m implies that milestones in th wer levels have been substar onstrated. | nat level and | indicates substant | g a response box on the list that milestones in lower ially demonstrated as weather level(s). | r levels have been | |

PEDIATRICS MILESTONES

ACGME Report Worksheet

| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | |
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| | Either gathers too little information or exhaustively gathers information following a template regardless of the patient's chief complaint, with each piece of information gathered seeming as important as the next. Recalls clinical information in the order elicited, with the ability to gather, filter, prioritize, and connect pieces of information being limited by and dependent upon analytic reasoning through basic pathophysiology alone | Clinical experience allows linkage of signs and symptoms of a current patient to those encountered in previous patients. Still relies primarily on analytic reasoning through basic pathophysiology to gather information, but has the ability to link current findings to prior clinical encounters allows information to be filtered, prioritized, and synthesized into pertinent positives and negatives, as well as broad diagnostic categories | Demonstrates an advanced development of pattern recognition that leads to the creation of illness scripts, which allow information to be gathered while simultaneously filtered, prioritized, and synthesized into specific diagnostic considerations. Data gathering is driven by real-time development of a differential diagnosis early in the information-gathering process | Creates well-developed illness scripts that allow essential and accurate information to be gathered and precise diagnoses to be reached with ease and efficiency when presented with most pediatric problems, but still relies on analytic reasoning through basic pathophysiology to gather information when presented with complex or uncommon problems | Creates robust illness scripts and instance scrip (where the specific features of individual patients are remembered and used in future clinical reasoning) that lead to unconscious gathering of essential and accurate information in a targeted and efficient manner who presented with all but the most complex or rare clinical problems. These illness and instance scrip are robust enough to enable discrimination among diagnoses with subtle distinguishing features | |
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| Not yet Assessable | Level 1 | | | Level 2 | | | Lev | el 3 | | | Le | vel 4 | | | Level 5 | | |
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| | Struggles to organize pat care responsibilities, lead focusing care on individu patients rather than multipatients; responsibilities prioritized as a reaction to unanticipated needs that (those responsibilities presenting the most signic crisis at the time are give highest priority); even sminterruptions in task ofte to a prolonged or permanderal break in that task to attee the interruption, making to initial task difficult or unlikely | ling to al ciple are o arise ificant in the hall nent and to | simult patien occasi patien respor anticip each a interru to not efficie effecti perma with ir comm | nsibilities pate futu dditiona uption in able dec ncy and ively price nterrupti on, but pand | efficientionitizes sto are need patiention work creases ability pritize; eaks in ions arprolong | es eds; ent or leads in to task e less ged | simul patie routil care i proac futur care i decre abilit priori patie large perce priori task a only i break | nizes the taneous onts with energy prior esponsibilitively and eneeds; a responsibilities only no effective only interprior of ottes; interprior it ead to prose in task ond or conthered in the prior on the energy in the prior it ead to prose in task on on conthe energy in the prior it ead to prose in task on on conthe energy in the prior it ead or conthe energy in the energy in the energy in task on on conthe energy in the energy in | efficiend itizes prilities to ticipate addition ilities le fficience tively when e is quit is a compet rruption cized an olonge when | cy; atient o nal ead to y and ce | respon efficier a large with m patient respon prioriti preven emerge care th anticip in task | sibilitiency; provolum arked of care sibilitience to those entissuated; in lead to in task | proacti urgent ues in pa | timize care to cients cy; vely cand catient tions rief | efficier respon prioriti preven routine care th anticip interru prioriti safe an multita respon | as a role incy; patients; patients a zed to protein aspects of at can be ated; unaptions are zed to maid effectives sibilities it ally all sit | nt care pactive ption b of pati pativoidal e e e eximize e |
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| | Demonstrates variability in transfer of information (content, accuracy, efficiency, and synthesis) from one patient to the next; makes frequent errors of both omission and commission in the hand-off | Uses a standard template for the information provided during the handoff; is unable to deviate from that template to adapt to more complex situations; may have errors of omission or commission, particularly when clinical information is not synthesized; neither anticipates nor attends to the needs of the receiver of information | Adapts and applies a standardized template, relevant to individual contexts, reliably and reproducibly, with minimal errors of omission or commission; allows ample opportunity for clarification and questions; is beginning to anticipate potential issues for the transferee | Adapts and applies a standard template to increasingly complex situations in a broad variety of settings and disciplines; ensures open communication, whether in the receiver- or the provider-of-information role, through deliberative inquiry, including readbacks, repeat-backs (provider), and clarifying questions (receivers) | Adapts and applies the template without error and regardless of setting complexity; internalizes the professional responsibility aspect of hand-off communication as evidenced by formal a explicit sharing of the conditions of transfer (extime and place) and communication of those conditions to patients, families, and other members of the health care team | |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
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| | Recalls and presents clinical facts in the history and physical in the order they were elicited without filtering, reorganization, or synthesis; demonstrates analytic reasoning through basic pathophysiology results in a list of all diagnoses considered rather than the development of working diagnostic considerations, making it difficult to develop a therapeutic plan | Focuses on features of the clinical presentation, making a unifying diagnosis elusive and leading to a continual search for new diagnostic possibilities; largely uses analytic reasoning through basic pathophysiology in diagnostic and therapeutic reasoning; often reorganizes clinical facts in the history and physical examination to help decide on clarifying tests to order rather than to develop and prioritize a differential diagnosis, often resulting in a myriad of tests and therapies and unclear management plans, since there is no unifying diagnosis | Abstracts and reorganizes elicited clinical findings in memory, using semantic qualifiers (such as paired opposites that are used to describe clinical information [e.g., acute and chronic]) to compare and contrast the diagnoses being considered when presenting or discussing a case; shows the emergence of pattern recognition in diagnostic and therapeutic reasoning that often results in a well-synthesized and organized assessment of the focused differential diagnosis and management plan | Reorganizes and stores clinical information (illness and instance scripts) that lead to early directed diagnostic hypothesis testing with subsequent history, physical examination, and tests used to confirm this initial schema; demonstrates well-established pattern recognition that leads to the ability to identify discriminating features between similar patients and to avoid premature closure; Selects therapies that are focused and based on a unifying diagnosis, resulting in an effective and efficient diagnostic work-up and management plan tailored to address the individual patient | Current literature does not distinguish betwee behaviors of proficient and expert practitioner Expertise is not an expectation of GME training, as it requires deliberate practice over time |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
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| | Develops and carries out management plans based on directives from others, either from the health care organization or the supervising physician; is unable to adjust plans based on individual patient differences or preferences; communication about the plan is unidirectional from the practitioner to the patient and family | Develops and carries out management plans based on one's theoretical knowledge and/or directives from others; can adapt plans to the individual patient, but only within the framework of one's own theoretical knowledge; is unable to focus on key information, so conclusions are often from arbitrary, poorly prioritized, and timelimited information gathering; develops management plans based on the framework of one's own assumptions and values | Develops and carries out management plans based on both theoretical knowledge and some experience, especially in managing common problems; follows health care institution directives as a matter of habit and good practice rather than as an externally imposed sanction; is able to more effectively and efficiently focus on key information, but still may be limited by time and convenience; begins to incorporate patients' assumptions and values into plans through more bidirectional communication | Develops and carries out management plans based most often on experience; effectively and efficiently focuses on key information to arrive at a plan; incorporates patients' assumptions and values through bidirectional communication with little interference from personal biases | Develops and carries out management plans, even for complicated or rare situations, based primari on experience that puts theoretical knowledge in context; rapidly focuses of key information to arrive at the plan and augments that with available information or seeks new information as needed; hinsight into one's own assumptions and values that allow one to filter them out and focus on the patient/family values in a bidirectional conversation about the management plan |
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| | Evidence-ba (EBM), but i | sic principles of ased Medicino relevance is li inical exposu | e mited | of usi inform patien extern is able quest effort search minin multiple know interpretation for the search minin multiple search mining search multiple search mining search multiple search mining search multiple search mining search multiple search multip | gnizes thing currents and interesting the search of the se | ent o care respon npts to nulate th signi ne; onl ncy is ., may ch stra o read literat | for ds to do so; ficant ine require tegies); and ure but | as lead maked answ regul. becond to do varying and control of the | fies know rning opposes an effor erable quare basis a ning increase; unde an utilize an utilize an method ally appra allyzing the mes, how guidance estanding eties of the s to seek ance when st when | oortuning to as a sestion of is easingly retained advantis; is about the major vever, and the evident and again needs | ities; k s on a y able s ence ced ble to oppic or may ence; oply ed, | incorpo eviden teache quite c advanc to criti- and do | questionates ce in ros fellow apable ced sea cally apes so r finding o impres; prace of the cient an more onse to | ons regularly with arching; ppraise egularly sove the tices Electrical the conditions are there are there e rather | gularly; clinical and ers; is ; is able topics y; others eir BM desire r than | of to for conga dicta info easi ansv que: majo habi and acce seer | opics to change anization ated by rmatior ly formoverable stions a pority of it; is ablue efficier ess the laby other ways of the by other laby | nal level best cu n; is able | stri I as rren s to s so s as ectiv ch a e; is | wes t with a vely nd |
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| c c c c c c c c c c c c c c c c c c c | Performs the role of medical decision-maker, developing care plans and setting goals of care independently; informs patient/family of the plan, but no written care plan is provided; makes referrals, and requests consultations and testing with little or no communication with team members or consultants; is not involved in the transition of care between settings (e.g., putpatient and inpatient, pediatric and adult); shows little or no recognition of social/educational/cultural issues affecting the patient/family | Begins to involve the patient/family in setting care goals and some of the decisions involved in the care plan; a written care plan is occasionally made available to the patient/family; care plan does not address key issues; has variable communication with team members and consultants regarding referrals, consultations, and testing; answers patient/family questions regarding results and recommendations; may inconsistently be involved in the transition of care between settings (e.g., outpatient and inpatient, pediatric and adult); makes some assessment of social/educational/cultural issues affecting the patient/family and applies this in interactions | Recognizes the responsibility to assist families in navigation of the complex health care system; frequently involves patient/family in decisions at all levels of care, setting goals, and defining care plans; frequently makes a written care plan available to the patient/family and to appropriately authorized members of the care team; care plan omits few key issues; has good communication with team members and consultants; consistently discusses results and recommendations with patient/family; is routinely involved in the transition of care between settings (e.g., outpatient and inpatient, pediatric and adult); considers social, educational and cultural issues in most care interactions | Actively assists families in navigating the complex health care system; has open communication, facilitating trust in the patient-physician interaction; develops goals and makes decisions jointly with the patient/family (shared-decision-making); routinely makes a written care plan available to the patient/family and to appropriately authorized members of the care team; makes a thorough care plan, addressing all key issues; facilitates care through consultation, referral, testing, monitoring, and follow-up, helping the family to interpret and act on results/recommendations; coordinates seamless transitions of care between settings (e.g., outpatient and inpatient, pediatric and adult; mental and dental health; education; housing; food security; family-to-family | Current literature does not distinguish between behaviors of proficient and expert practitioners. Expertise is not an expectation of GME training, as it requires deliberate practice over time |

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| | | | support); builds partnerships that foster family-centered, culturally- effective care, ensuring communication and collaboration along the continuum of care | |
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| | | | Continuum or care | |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
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| | Attends to medical needs of individual patient(s); wants to take good care of patients and takes action for individual patients' health care needs | Demonstrates recognition that an individual patient's issues are shared by other patients, that there are systems at play, and that there is a need for quality improvement of those systems; acts on the observed need to assess and improve quality of care | Acts within the defined medical role to address an issue or problem that is confronting a cohort of patients; may enlist colleagues to help with this problem | Actively participates in hospital-initiated quality improvement and safety actions; demonstrates a desire to have an impact beyond the hospital walls | Identifies and acts to begi the process of improvement projects both inside the hospital and within one's practice community |
| | Example: Sees a child with a firearm injury and provides good care. | Example: A physician notes on rounds, "We have sent home four-to-five firearminjury patients and one has come back with repeated injury. We need to do something about that." | Example: The physician works with colleagues to develop an approach, protocol, or procedure for improving care for penetrating trauma injury in children and measures the outcomes of system changes. | Example: The physician attends a hospital symposium on gun-related trauma and what can be done about it and then arranges to speak on gun safety at the local meeting of the parentteachers association. | Example: Upon completion of quality improvement project, the physician works on new proposed legislation and testifies in City Council. |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | |
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| | Seeks answers and responds to authority from only intraprofessional colleagues; does not recognize other members of the interdisciplinary team as being important or making significant contributions to the team; tends to dismiss input from other professionals aside from other physicians | Is beginning to have an understanding of the other professionals on the team, especially their unique knowledge base, and is open to their input, however, still acquiesces to physician authorities to resolve conflict and provide answers in the face of ambiguity; is not dismissive of other health care professionals, but is unlikely to seek out those individuals when confronted with ambiguous situations | Aware of the unique contributions (knowledge, skills, and attitudes) of other health care professionals, and seeks their input for appropriate issues, and as a result, is an excellent team player | Same as Level 3, but an individual at this stage understands the broader connectivity of the professions and their complementary nature; recognizes that quality patient care only occurs in the context of the interprofessional team; serves as a role model for others in interdisciplinary work and is an excellent team leader | Current literature does not distinguish betweer behaviors of proficient and expert practitioners Expertise is not an expectation of GME training, as it requires deliberate practice over time | |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
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| | The learner acknowledges external assessments, but understanding of his performance is superficial and limited to the overall grade or bottom line; has little understanding of how the performance measure relates in a meaningful way to his specific level of Knowledge, Skills and Attitudes (KSA) | Assessment of performance is seen as being able to do or not do the task at hand without appreciation for how well it is done and whether there is a need to improve the outcome | Prompts for understanding specifics of level of performance are internal and may be identified in response to uncertainty, discomfort, or tension in completing clinical duties; evidence of this stage is demonstrated by active questioning and application of knowledge in developing a rationale for care plans or in teaching activities | Prompted by anticipation or contemplation of potential clinical problems, the learner self-identifies gaps in KSA through reflection that assesses current KSA versus understanding of underlying basic science or pathophysiologic principles to generate new questions about limitations or mastery of KSA; evidence of this stage can be determined by the advanced nature and level of questioning or resource seeking | Prompted by a self-directed goal of improving the professional self, the practitioner anticipates hypothetical clinical scenarios that build on current experience and systematically addresses identified gaps to enhance the level of KSA; elaborate questioning occurs to further explore gaps and strengths |
| | Example: During a semiannual review, a learner is unable to describe in any specific terms how he has performed when asked to do so by his mentor. In response, the mentor reviews and interprets the learner's evaluations and then asks the learner to reflect on the discussion. The learner repeats the language used and recites the overall score/grade | Example: The learner seeks external assessment of performance as ability "to do" or "not able to do" with little understanding of what the assessment means. "Are these orders written correctly?" "Did I do that correctly?" Seeks feedback approval on whether KSA were "right" or "wrong." | Example: Learner requests elaboration, clarification, or expansion on patient- care related task. "Why would we use this antibiotic for this condition?" or "The patient has underlying condition x. Does that alter therapy y for this patient?" or "I think we should order study w | Example: In caring for a patient with an illness not previously encountered, this practitioner says, "I have experience taking care of patients with this acute illness but have never had a patient with this acute illness who also had this particular underlying condition and wonder if | Example: In caring for a patient, a practitioner becomes aware of a gap in KSA, and in response (with or without consultation from a mentor) seeks to understand more about the identified KSA gap. A PICO formatted question (P = Patient, I = Intervention, C = Comparison, O = |

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| | without interpretation of further meaning or inference regarding the reported performance assessment | Does not seek "How?" or "Why?" as part of request for feedback to assist identification of KSA. | for this patient, since sometimes this disease presents with underlying condition z." | the chronic condition might alter his clinical course?" | Outcome) is constructed, followed by a process of identification of learning needed. | | |
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| Comments: | | | | | | | |

| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
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| | Sets learning activities based on readily available curricular materials, irrespective of learning style, preferences, appropriateness of activity, or any outcome measures | Well-defined goals are mapped to appropriate learning activities and resources based on assigned curriculum; assignment may be part of a teacher-constructed curriculum, or part of a prescribed curriculum offered by others, or sought by the learner in response to a performance gap | Learning resources are sought based on analysis of learning needs assessment and constructed goals, and with consideration of the nature of the learning content and method | Consideration of choice of activities is based on instructional methods that are known to be effective in the development of the relevant knowledge content, application of that knowledge, and development of skills or behaviors; learning takes place through collaborative interface with experts in which learning activities sought are ones that allow for constant course correction and interactive sharing of alternative perspectives and differing lenses | Seeking resources to learn is undertaken with high efficiency and effectiveness, with open and flexible inclusion of the influences from outside sources (including regulatory and oversight groups); fruitful pathways and resources for learning are readily shared with peers and self-assessment of learning drives further resource seeking |
| | Example: After realizing a need to better understand what medications should be used in the management of a clinic patient with moderate asthma, the learner asks a peer who is working with him in clinic rather than pursuing the references suggested by his clinic preceptor. | Example: A learner reads cases assigned for primary care in advance of coming to a scheduled clinic session where a discussion of the cases is to take place. Others have not read the case, and after the session the resident is left wondering about the case and its relevance to overall | Example: Having failed at intubation in the delivery room, the learner goes back to the simulation lab to receive further training on intubation with the manikin (and does not simply reread the Neonatal Resuscitation Protocol10). | Example: A learner is planning an advocacy workshop for parents of children with complex medical needs to improve their skills with managing medical devices. In the process of preparing for this workshop, he discovers that there is an in-service for parents of hospitalized patients in | Example: The learner seeks to expand the types of device discussed in the workshop and looks to the work published by the Institute of Medicine Committee or Safe Medical Devices for Children.11 He decides to pursue resources (experts in the field) to see if it would be possible to learn how to provide the |

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| | learning. The case is part of | | how to care for devices and | instructional materials, |
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| | a core curriculum with | | participates in this learning | plans, and workshops to |
| | learning goals and | | activity. Through this in- | parents throughout the |
| | objectives. Later, in clinic a | | service, he identifies | state. |
| | patient presents with a | | written resources, models | |
| | problem similar to last | | useful for demonstrations, | |
| | week's case discussion, and | | and video-recorded | |
| | the learner is able to go | | illustrations of anticipated | |
| | back to that case to glean | | complications with device | |
| | further information on how | | use. He chooses to conduct | |
| | to manage the patient. | | a practice rehearsal with | |
| | | | some families in the | |
| | | | inpatient setting, with | |
| | | | course correction from the | |
| | | | hospital's nurse-educator. | |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | | |
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| | Unable to gain insight from encounters due to a lack of reflection on practice; does not understand the principles of quality improvement methodology or change management; is defensive when faced with data on performance improvement opportunities within one's practice | Able to gain insight from reflection on individual patient encounters, but potential improvements are limited by a lack of systematic improvement strategies and team approach; is dependent upon external prompts to define improvement opportunities at the population level | Able to gain insight for improvement opportunities from reflection on both individual patients and populations; grasps improvement methodologies enough to apply to populations; is still reliant on external prompts to inform and prioritize improvement opportunities at the population level | Able to use both individual encounters and population data to drive improvement using improvement methodology; analyzes one's own data on a continuous basis, without reliance on external forces, to prioritize improvement efforts, and uses that analysis in an iterative process for improvement; is able to lead a team in improvement | In addition to demonstrating continuou improvement activities are appropriately utilizing quality improvement methodologies, thinks and acts systemically to try to use one's own successes benefit other practices, systems, or populations; if open to analysis that at times requires course correction to optimize improvement | | |
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| | Has difficulty in considering others' points of view when these differ from his or her own, leading to defensiveness and inability to receive feedback and/or avoidance of feedback; demonstrates a limited incorporation of formative feedback into daily practice | Is dependent on external sources of feedback for improvement; is beginning to acknowledge other points of view, but reinterprets feedback in a way that serves his or her own need for praise or consequence avoidance, rather than informing a personal quest for improvement; little to no behavioral change occurs in response to feedback (e.g., listens to feedback but takes away only those messages he or she wants to hear) | Understands others' points of view and changes behavior to improve specific deficiencies that are noted by others (e.g., understands that the perceptions of others are important even when those perceptions are different from his or her own, (such as when a nurse interprets a response as abrupt when it was not intended to be) causing the learner to examine what prompted this perception) | Internal sources of feedback allow for insight into limitations and engagement in self-regulation; improves daily practice based on both external formative feedback and internal insights (e.g., is able to point out what went well and what did not go well in a given encounter, and makes positive changes in behavior as a result) | Demonstrates professions maturity and deep emotional commitment that lead to deliberate practice and result in the habits of continuous reflection, self-regulation and internal feedback and that lead to continuous improvement beyond a focus solely on deficiencies. |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
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| | Appears to be interested in learning pediatrics but not fully engaged and involved as a professional, which results in an observational or passive role | Appreciates the role in providing care and being a professional, at times has difficulty in seeing self as a professional, which may result in not taking appropriate primary responsibility | Demonstrates understanding and appreciation of the professional role and the gravity of being the "doctor" by becoming fully engaged in patient care activities; has a sense of duty; has rare lapses into behaviors that do not reflect a professional self-view | Internalizes and accepts full responsibility of the professional role and develops fluency with patient care and professional relationships in caring for a broad range of patients and team members | Extends professional role beyond the care of patients and sees self as a professional who is contributing to somethin larger (e.g., a community specialty, or the medical profession) |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | | |
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| | Interacts with patients and families in a way that is detached and not sensitive to the human needs of the patient and family | Demonstrates compassion for patients in selected situations (e.g., tragic circumstances, such as unexpected death), but has a pattern of conduct that demonstrates a lack of sensitivity to many of the needs of others | Demonstrates consistent understanding of patient and family expressed needs and a desire to meet those needs on a regular basis; is responsive in demonstrating kindness and compassion | Goes beyond responding to expressed needs of patients and families; is altruistic and anticipates the human needs of patients and families and works to meet those needs as part of her skills in daily practice | Proactively advocates on behalf of individual patients, families, and groups of children in need | | |
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| Not yet Assessable | L | evel 1 | | | Lev | el 2 | | | | Leve | 13 | | | Le | /el 4 | | Level 5 | | | | | |
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| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
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| | Demonstrates gaps or is unaware of significant knowledge, skills or attitudes (KSA) gaps; demonstrates lapses in data-gathering or in follow-through of assigned tasks; may misrepresent data (for a number of reasons) or omit important data, leaving others uncertain as to the nature of the learner's truthfulness or awareness of the importance of attention to detail and accuracy (overt lack of truth-telling is assessed in another professionalism competency) | Demonstrates gaps in KSA, but does not always voice awareness of or seek help when confronted with limitations; demonstrates lapses in follow-up or follow-through with tasks, despite awareness of the importance of these tasks; follow-through may be limited due to inconsistency or yielding to barriers; when such barriers are experienced, no escalation occurs (such as notifying others or pursuing alternative solutions) | Demonstrates inadequate level of KSA for the level of clinical responsibility, with realistic insight into limits with responsive help seeking; data-gathering is complete with consideration of anticipated patient care needs, and careful consideration of high-risk conditions first and foremost; little prompting is required for follow-up | Demonstrates competent level of KSA for the level of clinical responsibility and assumes full responsibility for all aspects of patient care, anticipating problems and demonstrating vigilance in all aspects of management; pursues answers to questions, and communications include open, transparent expression of uncertainty and limits of knowledge | Demonstrates competent level of KSA for the level of clinical responsibility and assumes full responsibility for all aspects of patient care, anticipating problems and demonstrating vigilance in all aspects of management; pursues answers to questions, and communications include open, transparent expression of uncertainty and limits of knowledge; uncertainty brings about rigorous search for answers and conscientious and ongoing review of information; may seek the help of a consultant in addition to primary source literature |
| | Example: * A learner calls his supervisor at home to present a patient that he admitted. Key laboratory results are missing in the presentation and the supervisor requests that the learner seek this critical information and report back. Several hours later | Example: On hand-over of patients from the day team to the night team, several tasks are identified as needing follow-up or completion during the next shift. The following day, when the service is handed back over | Example: Presentation of a patient consultation is done in a comprehensive manner, without the need for prompting. Questions posed by the learner allow the consultant to appreciate the learner's | Example: An individual possesses the KSA to lead the team on rounds, asking for pertinent data not presented by other team members (assertive inquiry). Constant review and vigilance of patient | Example: This is the practitioner who leaves no stone unturned. Colleagues are confident when handing-off a patient that the patient will receive exemplary care. In fact, when there is a complex patient, colleagues are |

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| | on rounds, the learner is again questioned about the laboratory values, and reports that the results are normal, but is unable to locate those results in his paperwork. D-2, C-1, T-2 KSA= Knowledge, skills & attitudes D= Discernment C= Conscientiousness T= Truth telling Number refers to performance level (1-5) | to the original learner, several of these tasks were either incomplete or not completed as specified in the sign-out. When questioned about these tasks, the night-float individual indicated that things were busy, he forgot, or gives another excuse indicating an awareness of the expectation but failure to complete the tasks. KSA-3, D-2, C-3 | understanding of the disease process and the learners' awareness of gaps in his knowledge. Careful attention to detail and accuracy are evident in the history and physical examination that is presented. The next day, the service is busy and the learner needs reminding to re-check the send-out labs. KSA-3, D-3, C-3 | status uncovers unexplained findings on laboratory or physical examination. Findings are reported to supervisors as change with un-identified meaning (and potential concern). KSA-4, D-4, T-4 | relieved when this practitioner is on-call because he typically invests much time and energy in searching for needed answers and meticulously reports back on all important developments. KSA-4, D-4, C-4, T-4 |
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| Comments: | | | | | |

PROF6. Recognize that ambiguity is part of clinical medicine and to recognize the need for and to utilize appropriate resources in dealing with uncertainty

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| Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
| | Demonstrates state of being overwhelmed and unsure when faced with uncertainty or ambiguity; communications with patients/families and development of therapeutic plan are approached in a limited and authoritarian manner;; patient/family numeracy (understanding of probability/risk) is presumed; seeks only self or self-available resources to manage response to this uncertainty, resulting in a response characterized by their (individual) preexisting state of risk aversion or risk taking; does not regard patient need for hope; feels compelled to make sure that patients understand full potential for negative outcome (defensive/protective of physician) | Expresses recognition of uncertainty and the tension/pressure from not knowing or knowing with limited control of outcomes; explains situation to the patient in framework most familiar to the physician, rather than framing it with terms, graphics, or analogies familiar to the patient; seeks rules and statistics and feels compelled to transfer all information to the patient immediately, regardless of patient readiness, patient goals, and patient ability to manage information | Anticipates and focuses on uncertainty, looking for resolution by seeking additional information; informs the patient of the more optimal outcome(s), framed by physician goals; does not manage overall balance of patient/family uncertainty with quality of life, need for hope, and ability to adhere to therapeutic plan; focuses on own risk management position for a given problem and does not suggest that more or less risk taking (different from physician's position) could be chosen; still seeks patient/parent recitation of uncertainty/morbidity as proof that patient/family understands the uncertainty; unresolved balance of physician/patient expectations with physician expectations taking precedence | Anticipates that uncertainty at the time of diagnostic deliberation will be likely; uses such uncertainty or ambiguity as a prompt/motivation to seek information or understanding of unknown (to self or world); balances delivery of diagnosis with hope, information, and exploration of individual patient goals; works through concepts of risk versus hope using conceptual framework that includes cost (e.g., suffering, lifestyle changes, financial) versus benefit, framed by patient health care goals; expresses openness to patient position and patient uncertainty about his or her position and response | Acknowledges and manages personal level of risk aversion or risk-taking tendencies; seeks to understand patient/family goals for health and their capacity to achieve those goals,; engages in discussion with high sensitivity towards health literacy and numeracy, emphasizing patient/family control of choices; openly and comfortably discusses strategies and outcomes anticipated with the patient/family, emphasizing that all plans are subject to the imperfect knowledge and state of uncertainty; ongoing information sharing through changes as knowledge and patient health status evolve; remains flexible and committed to engagement with the patient/family throughout the patient's illness, serving as a |

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| Comments: | | | | | | | | | | | | | | |

ICS1. Communicate effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds

| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | | | |
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| | Uses standard medical interview template to prompt all questions; does not vary the approach based on a patient's unique physical, cultural, socioeconomic, or situational needs; may feel intimidated or uncomfortable asking personal questions of patients | Uses the medical interview to establish rapport and focus on information exchange relevant to a patient's or family's primary concerns; identifies physical, cultural, psychological, and social barriers to communication, but often has difficulty managing them; begins to use non-judgmental questioning scripts in response to sensitive situations | Uses the interview to effectively establish rapport; is able to mitigate physical, cultural, psychological, and social barriers in most situations; verbal and non-verbal communication skills promote trust, respect, and understanding; develops scripts to approach most difficult communication scenarios | Uses communication to establish and maintain a therapeutic alliance; sees beyond stereotypes and works to tailor communication to the individual; a wealth of experience has led to development of scripts for the gamut of difficult communication scenarios; is able to adjust scripts ad hoc for specific encounters | Connects with patients and families in an authentic manner that fosters a trusting and loyal relationship; effectively educates patients, families, and the public as part of all communication; intuitively handles the gamut of difficult communication scenarios with grace and humility | | | |
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Comments:

ICS2. Demonstrate the insight and understanding into emotion and human response to emotion that allows one to appropriately develop and manage human interactions

| Not yet Assessable | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | | | |
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| | Does not accurately anticipate or read others' emotions in verbal and non-verbal communication; is unaware of one's own emotional and behavioral cues and may transmit emotions in communication (e.g., anxiety, exuberance, anger) that can precipitate unintended emotional responses in others; does not effectively manage strong emotions in oneself or others | Begins to use past experiences to anticipate and read (in real time) the emotional responses in himself and others across a limited range of medical communication scenarios, but does not yet have the ability or insight to moderate behavior to effectively manage the emotions; strong emotions in oneself and others may still become overwhelming | Anticipates, reads, and reacts to emotions in real time with appropriate and professional behavior in nearly all typical medical communication scenarios, including those evoking very strong emotions; uses these abilities to gain and maintain therapeutic alliances with others | Perceives, understands, uses, and manages emotions in a broad range of medical communication scenarios and learns from new or unexpected emotional experiences; effectively manages own emotions appropriately in all situations; effectively and consistently uses emotions to gain and maintain therapeutic alliances with others; is perceived as a humanistic provider | Intuitively perceives, understands, uses, and manages emotions to improve the health and well-being of others and to foster therapeutic relationships in any and all situations; is seen as an authentic role model of humanism in medicine | | | |
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Comments: