Chapter One Abilities: Attitudes and Behaviors

INTRODUCTION

This chapter of the Global Pediatric Curriculum is part of a competency-based framework upon which to build a training program in general pediatrics. This competency-based approach will assist programs to develop or refine the training process so that the knowledge and skills required to provide competent care are grounded upon globally recognized **abilities**, **attitudes**, **and behavioral attributes** that are believed to be essential to general pediatric medicine.

The Global Pediatric Education Consortium (GPEC) believes that some of these abilities and behavioral attributes are necessary to be mastered during training, while others need only be exposed to the resident during training. Therefore, each section of this chapter contains preamble statements of what a resident MUST be able to do, or should be FAMILIAR with or have EXPOSURE to, in order to be well-grounded in general pediatric care.

NOTE: The term "resident" is used to represent students in the post-graduate training environment and is synonymous with "trainee" or "registrar" and other similar terms.

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General

At the end of training a resident must:

Understand the concept that "the ability to act does not necessarily justify the action"

Understand why doctors need to be careful when interacting with the pharmaceutical industry (ie, conflict of interest)

Know that dealing effectively with an ethical problem depends on: (1) recognizing the ethical issue; (2) applying relevant knowledge; (3) analyzing the problem; (4) deciding on a course of action; and (5) implementing the necessary steps to improve the situation

Understand the principles of research ethics applied to children and research publication

Be able to:

Defend children's rights in accordance with the "UN Convention on the Rights of the Child"

Apply ethical principles and analysis to clinical care and research

Apply national legislation to clinical care and research

Demonstrate awareness of the main professional obligations of doctors

Practice according to statutory requirements and codes of conduct for medical practice

Critically analyze ethical issues commonly encountered in medical practice and formulate a framework within which such issues could be resolved

Demonstrate the ability to resolve ethical issues faced during common clinical scenarios

Demonstrate sensitivity to ethical issues and behavior within, and outside, professional practice

Identify the ethical aspects involved in conducting research and apply ethical principles in conducting research

Distinguish between ethics, clinical ethics, and bio-ethics

Know the differences between informed "consent" and informed "assent"

Know the differences between "emancipated minor" and "mature minor"

Ethical Principles

By the end of training a resident must:

Autonomy

Know how to explain the following terms: (1) best interest; (2) advance directives; (3) withdrawal or withdrawing life support systems; (4) do not resuscitate (DNR) orders; and (5) euthanasia

Understand the principles of ethics when dealing with patients and family members:

Understand the importance of patient autonomy

Understand that the principle of autonomy is also the basis of numerous other moral precepts: (1) confidentiality; (2) freedom of choice; (3) accountability; (4) avoidance of conflict of interest; (5) informed consent

Understand the importance of obtaining valid consent from a patient/parent/guardian for investigations and treatments

Understand that children gradually become more autonomous as they mature and understand the world around them

Understand the importance of confidentiality in the doctor-patient relationship

Understand the importance of telling the patient the truth about his/her medical condition

Be able to:

Display evidence of applying ethical principles

Beneficence

Understand that beneficence emphasizes enhancing kindness, charity, and welfare to others

Understand that beneficence elevates the physician's acts of charity to a moral obligation without committing harm to others in the process

Non-maleficence

Understand that non-maleficence emphasizes that a physician should not inflict pain, suffering, distress (whether physical or psychological), loss of freedom or disability, or death

Understand that a physician's obligation to his patients to "promote their good" is less important than to prevent their harm ("primum non nocere")

Justice

Be able to:

Demonstrate an attitude of equality in dealing with patients irrespective of age, sex, religion, ethnicity, etc

Demonstrate an understanding of the ethical issues related to the concept of

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General

By the end of training a residents must:

Be able to:

Work effectively as a member or leader of a health care team or other professional group

Identify the level competence and skills of other health providers, eg, nurses, community health workers

Act in a consultative role to other physicians and health providers

Work effectively in multidisciplinary, inter-professional, and cross-cultural teams

Demonstrate effective, appropriate, and timely consultation with other health professionals as needed for optimal patient care

Identify and respect the diversity of roles, responsibilities, and competence of other professionals in relation to their own

Work with others to assess, plan, provide, and integrate care for individual patients or groups of patients

Work with others to assess, plan, provide, and review tasks such as research problems, educational work, program review or administrative responsibilities

Participate effectively in team meetings

Create appropriate relationships with other professions in order to facilitate the provision of quality care

Respect team ethics, including confidentiality, resource allocation, and professionalism

Collaborate with teachers, social workers, community leaders, child protection workers, and other allied health professionals to assess, plan, review and provide health prevention, and interventions

Identify special skills for collaboration related to transition of care (eg, congenital heart disease care provided by a pediatrician transitioning to an adult cardiologist)

Human Rights Issues

By the end of training a resident should be **familiar** with:

United Nations Declaration of Human Rights

United Nations Convention of the Rights of the Child

The framework of Health and Human Rights

Ethics and human rights such as the history of physicians in human rights protection and abuses

Current and evolving role of physicians in human rights protection and abuses

Law and human rights

Social determinants of health on children's health, health care access, and health outcomes By the end of training a resident should be **familiar** with:

Basic economics, poverty, and income inequality

Gender disparities, unemployment, and education

Political systems and policies

Inequities in health care accessibility globally and within countries

Cultural influences

Global Health Priority setting

By the end of training a resident **should**:

Have an understanding of global child health priority setting

Be able to:

Identify international goals and strategies for improving child and maternal health (eg, Millennium Development Goals [MDGs])

Describe how such goals and strategies have impacted policy, funding and development of newborn, child and maternal health programs worldwide

Discuss the relevance of the MDGs to child health

Describe the achievements and failures of relevant countries globally in achieving the MDGs

Organizations

By the end of training a resident **should**:

Have a basic understanding of the role of organizations including:

World Health Organization (WHO)

United Nations Children's Fund (UNICEF)

Global Alliance on Vaccines Initiative (GAVI)

World Trade Organization, World Bank, International Monetary Fund, General Agreement on Tariffs and Trade

Non-Governmental Organizations in your own country/region

Governments (eg, Ministries of Health) in your own country

Be able to:

Describe the relevance of the MDGs to child health and indicate how successful your own country and other countries globally have been in achieving the goals

Explain how the policies and funding structures of these organizations as well as donor nations impact global child health

Global burden of disease

By the end of training a resident **should**:

Understand the impact of the following upon the global burden of disease:

Water, sanitation, nutrition, and environmental determinants of disease

Communicable diseases (HIV/AIDS, Tuberculosis, Malaria)

Non-communicable and preventable diseases, injuries and violence

Population health

Maternal and child health

Mental health

Be able to:

Describe how increasing globalization contributes to the emergence and reemergence of diseases/conditions, and food and water supply

Describe known cost-effective interventions, including prevention strategies, for reducing under-5 mortality and morbidity (eg, vitamin A supplementation, exclusive breastfeeding)

Describe international goals and strategies for improving child and maternal health (eg, Millennium Development Goals), and how these have impacted policy, funding and development of newborn, child, and maternal health programs worldwide.

Environmental events and related policies that impact on children's health

By the end of training a resident should **be aware of**:

Natural disasters and disaster relief

Man-made disasters such as global conflict, war, refugees, and global toxin burden

Migration, travel, and global interaction

Epidemics, pandemics, and changing patterns of disease globally

Structure and function of the national or regional health system

By the end of training a residents be able to:

Describe the structure and function of the national or regional health system

Describe the structure of the health system and the roles and responsibilities of the various levels involved

Compare and contrast the national health system, training, and pediatric practice in their own country with that of other countries internationally

Describe the role of the different health care delivery settings including different types of hospitals (eg, tertiary or private), clinics (eg, primary health care), and community-based services

Contrast the advantages and disadvantages of different approaches to implementing health care interventions such as vertical or targeted programs versus integrated strategies, focused versus comprehensive care, and facility- versus community-based care

Explain the process of health policy making (eg, local, district, state, provincial, federal, national)

Explain the financing, fee structure, and reimbursement of public and private health services (eg, health insurance, pay for service, employment based, and the impact of this on access to care and quality of care)

Describe methods of regulation of health professional and health care institutions (eg, certification, licensure, institutional accreditation)

Demonstrate an awareness of the health care workforce crisis in resource limited countries, the factors that contribute to this and strategies to address the problem

Measurement of Children's Health

By the end of training a resident should **be able to**:

Explain the importance of measuring children's health

Identify sources for national and local child health statistics such as vital statistics and public health surveillance systems

Define and interpret key child health indicators such as:

- Neonatal mortality rate
- Infant mortality rate
- Under five mortality rate
- Perinatal mortality rate
- Low birth weight rate
- Underweight, stunting, and wasting rates

Describe and contrast the major causes of child mortality globally and nationally

including changes with time

Describe the burden of disease of major communicable diseases globally and nationally

Describe the burden of disease of major non-communicable diseases globally and nationally including accidents and injuries

Explain how indicators may be used to monitor and evaluate the impact of child public health interventions

Describe the benefits of auditing clinical practice, including neonatal and child mortality audits, in improving health facilities or program performance

Health Promotion and Disease prevention

By the end of training a resident should be familiar with:

The content and mechanisms for delivering cost-effective health promotion and disease prevention interventions to children globally, or in under-resourced settings, such as:

Integrated Management of Childhood Illness (IMCI)

Expanded Program on Immunization (EPI)

Polio eradication

Vitamin A supplementation

Exclusive breastfeeding support

Prevention of mother-to-child transmission of HIV

Health care delivery systems

By the end of training a resident **should**:

Have **been exposed to or made aware** of the various healthcare delivery systems including:

Allopathic ('Western') healthcare models including government sponsored, insurance, payers, and individual care

Community-based care models

Community health worker models

Participation and empowerment

Access to health care: evidence-based research

Public health models such as vaccination, eradication, and population approaches

Be able to:

Demonstrate the ability to appropriately access WHO, UNICEF, CDC and other worldwide literature and guidelines; internet resources and appropriate technologies (eg, mobile phone apps)

Organizations involved in global health

By the end of training a resident **should**:

Be able to:

Identify and give examples of initiatives and programs of major organizations that make and influence international health policy and provide funding for children's health, including WHO, UNICEF, Gates Foundation, GAVI and the World Bank

Explain how the policies and funding structures of these organizations as well as donor nations impact global child health.

Demonstrate competence in accessing appropriate educational materials from the following: WHO, UNICEF, Centres for Disease Control (CDC)

Utilize other global guidelines and resources, including through the use of internet resources and appropriate smartphone apps

Describe the various types of organizations involved in global health (eg, The Network, Global Health Education Consortium, FAIMER, The Gates Foundation, Kellogg Foundation)

Developing Global Health Curricula: A Guidebook for US Medical Schools.

(http://globalhealthedu.org/PublicDocs/Developing%20GH%20Curricula Guidebook%20for%20US%20Medical%20 Schools.pdf)

McKimm, J and McLean M (2011). Developing a global health practitioner: Time to act? *Medical Teacher* 33:626-631.

¹Adapted from the following sources:

Patient Safety and Quality Improvement

General

By the end of training a resident must:

Know definitions used in discussions of patient safety including: Medical error, near-miss event, a sentinel event, preventable adverse events, non-preventable adverse events

Demonstrate active and meaningful engagement in a quality improvement activity with emphasis on patient safety.

Medical error and harm

By the end of training a resident must:

Know the epidemiology of medical error and harm

Understand the contribution of adverse events to the morbidity and mortality of pediatric patients

Understand the contribution of adverse events to the cost of medical care

Be able to:

Identify the common causes of adverse events in pediatric patients

Identify situations presenting high risk for adverse events in the management of pediatric patients

Detecting and reporting adverse events and should:

By the end of training a resident must:

Be familiar with detecting and reporting adverse events

Understand the relationship between the detection of a medical error and the ability to discover and effect improvements

Be able to:

Identify barriers to reporting adverse events

Apply effective strategies to improve reporting of adverse events

Apply voluntary systems for reporting of adverse medical events

Disclosure of medical errors

By the end of training a resident **must**:

Understand the concepts of disclosure of medical errors

Be able to:

Use appropriate means to disclose medical errors to patients or their family

Apply appropriate methods of support for patients and their families after an error producing medical harm occurs

Use appropriate methods of support for physicians and other health-care

providers after an error producing medical harm occurs

Reduction of medical adverse events

By the end of training a resident **must**:

Understand the following concepts related to adverse events:

Methods to reduce medical adverse events

The relative role of systems and individuals in producing medical error and harm

Root cause analysis to determine the factors contributing to an error

Evidence-based interventions to reduce medical adverse events

The role of ancillary services such as the pharmacy in the prevention of medication errors

The impact of product naming and packaging on medication safety

The role of medical device design in prevention of medical error

The contribution of patient factors to adverse events

The role of patients and their families in reducing adverse events

The off label drug use as a patient safety risk

The role of computerized order entry (where applicable) and dose-range checking in reducing medication errors

Be able to:

Apply methods to be able to reduce medical adverse events

Anticipate system vulnerabilities by applying failure mode effects analysis (FMEA)

(for information about FMEA http://www.ihi.org/ihi/workspace/tools/fmea/)

Use best-practice guidelines to reduce medical adverse events

Use effective methods of communication to reduce errors in the health-care setting

Identify which interventions can reduce error in situations (eg, stress, fatigue, distraction) at high risk for medical error

Apply methodologies to prevent medication errors

Root cause analysis to determine the factors contributing to an error

Evidence-based interventions to reduce medical adverse events

Principles of Patient safety

By the end of training a resident must:

Understand how to apply key principles of patient safety Understand the key principles of patient safety

Understand the importance of leadership in creating a culture of safety in the health-

care system

Understand the importance of assessment and redesign of health- care processes before error occurs (manage safety risks)

Understand the importance of creating and maintaining a learning environment (eg, morning report, patient hand-offs, meetings with partners) in improving patient safety (optimize human and environmental factors)

Be able to:

Apply knowledge of human factors in the design of systems and processes promoting patient safety

Promote effective team functioning in the prevention of medical error

Quality improvement

By the end of training a resident **must**:

Understand and apply core principles of quality improvement Understand what a system is (eg, people, procedures, equipment) and how each component of that system affects outcomes

Understand that analysis of variation in data is critical in quality improvement to understand whether the variation is actually improvement

Understand that quality improvement is based on applying a scientific method to improving human systems

Be able to:

Identify that quality improvement requires looking at data or processes (ie, trends) over time

Apply the psychology of change (eg, motivating people to improve) to improve health-care systems

Identify the components of currently accepted methodology and technology for quality improvement (eg, the Langley Model for Improvement: Plan, Do, Study, Act [PDSA] cycles) (for more information on the PDSA model, see http://www.ihi.org/IHI/Topics/ChronicConditions/AllConditions/HowToImprove/)

Biostatistics

Types of variables (eg, continuous, categorical, ordinal, nominal)

By the end of training a resident **should**:

Understand how the type of variable affects the choice of statistical test

Be able to:

Distinguish types of variables

Distribution of data (eg, normal/skewed, percentiles, mean, median, mode, standard deviation, standard error)

By the end of training a resident **should**:

Understand how distribution of data affects the choice of statistical test

Understand the appropriate use of the mean, median, and mode

Understand the appropriate use of standard deviation

Understand the appropriate use of standard error

Be able to:

Differentiate normal from skewed distribution of data

Hypothesis testing (null/alternative, interpretation)

By the end of training a resident **should**:

Be able to:

Distinguish the null hypothesis from an alternative hypothesis Interpret the results of hypothesis testing

Statistical tests (eg, chi-square, t-test, ANOVA, p-value, Type I and II errors)

By the end of training a resident should:

Understand the appropriate use of the chi-square test versus a t-test

Understand the appropriate use of analysis of variance (ANOVA)

Understand the appropriate use of parametric (eg, t-test, ANOVA) versus non-parametric (eg, Mann-Whitney U, Wilcoxon) statistical tests

Understand the appropriate use of a paired and nonpaired t-test

Be able to:

Interpret the results of chi-square tests

Interpret the results of t-tests

Determine the appropriate use of a 1- versus 2-tailed test of significance

Interpret a p-value

Interpret a p-value when multiple comparisons have been made

Interpret a confidence interval

Identify a type I error

Identify a type II error

Measurement of association (eg, relative risk, odds ratio)

By the end of training a resident should:

Understand the uses and limitations of a correlation coefficient

Be able to:

Differentiate relative risk reduction from absolute risk reduction

Calculate the interpret a relative risk

Calculate and interpret an odds ratio

Interpret a hazard ratio

Regression analysis (eg, liner, logistic, survival analysis)

By the end of training a resident **should**:

Be able to:

Identify when to apply regression analysis (eg, linear, logistic)

Interpret a regression analysis (eg, linear, logistic)

Identify when to apply survival analysis (eg, Kaplan-Meier)

Interpret a survival analysis (eg, Kaplan-Meier)

Diagnostic tests (eg, sensitivity and specificity, positive and negative predictive value) By the end of training a resident should:

Understand how disease prevalence affects the positive and negative predictive value of a test

Be able to:

Identify the importance of an independent "gold standard" in evaluating a diagnostic test

Calculate and interpret sensitivity and specificity

Calculate and interpret positive and negative predictive values

Calculate and interpret likelihood ratios

Interpret a receiver operator characteristic curve

Interpret and apply a clinical prediction rule

Systematic reviews and meta-analysis (interpretation and application)

By the end of training a resident **should**:

Understand the purpose of a systematic review

Understand the advantages of adding a meta-analysis to a systematic review Be able to:

Interpret the results of a meta-analysis

Identify the limitations of a systematic review

Identify the limitations of a meta-analysis

Epidemiology and clinical research design

Study types (eg, retrospective versus prospective studies, case-control, longitudinal, cohort) By the end of training a resident should:

Understand the strengths and limitations of the following types of studies and/or analyses: retrospective, case series, cross-sectional studies, case-control studies, longitudinal studies, cohort studies, randomized-controlled studies, before-after studies, crossover studies, open-label studies, post-hoc analyses, subgroup analyses

Be able to:

Distinguish between Phase I, II, III, and IV clinical trials

Bias and confounding variables

By the end of training a resident **should**:

Understand how bias affects the validity of results

Understand how confounding affects the validity of results

Understand how study results may differ between distinct sub-populations (effect modification)

Be able to:

Identify common strategies in study design to avoid or reduce bias

Identify common strategies in study design to avoid or reduce confounding

Causality (causal versus association)

By the end of training a resident **should**:

Understand the difference between association and causation

Be able to

Identify factors that strengthen causal inference in observational studies (eg, temporal sequence, dose response, repetition in a different population, consistency with other studies, biologic plausibility)

Incidence and prevalence

By the end of training a resident **should**:

Be able to:

Distinguish disease incidence from disease prevalence

Decision analysis

By the end of training a resident **should**:

Understand the strengths and limitations of decision analyses

Be able to:

Interpret a decision analysis

Cost-benefit, cost-effectiveness, and outcomes

By the end of training a resident **should**:

Understand how quality-adjusted life years are used in cost analyses Understand the multiple perspectives (eg, of an individual, payor, society) that influence interpretation of cost-benefit and cost-effectiveness analyses

Be able to:

Differentiate cost-benefit from cost-effectiveness analysis

Sensitivity analysis

By the end of training a resident **should**:

Understand the strengths and limitations of sensitivity analysis

Be able to:

Interpret the results of sensitivity analysis

Measurement principles (eg, reliability and validity; accuracy and precision)

By the end of training a resident **should**:

Understand the types of validity that relate to measurement (eg, face, construct, criterion, predictive, content)

Be able to:

Distinguish validity from reliability

Distinguish internal from external validity

Distinguish accuracy from precision

Interpret measurements of interobserver reliability (eg, kappa)

Interpret Cronbach's alpha

Reflective Learning

By the end of training a resident **should m**ake a lifelong commitment to reflective learning by:

Maintaining and enhancing professional activities through ongoing learning

Recognizing the importance of self-assessment of professional competence and practice

Accepting responsibility for developing, implementing and monitoring a personal continuing education strategy

Conducting on-going personal practice audits

Integrating new learning into practice

Evaluating the impact of any change into practice

Identifying collaboratively the learning needs and desired learning outcomes of others

Selecting effective teaching strategies and content to facilitate others' learning

Demonstrating the ability to give an effective lecture or presentation

Assessing and reflecting on a teaching encounter

Describing the principles of ethics with respect to teaching

Understanding systematic reviews of the literature in search for evidence

Creation, dissemination, application and translation of medical knowledge

By the end of training a resident **should** make a commitment to the creation, dissemination, application and translation of medical knowledge by:

Applying the principles of critical appraisal to address a clinical question

Maintaining a questioning and inquisitive attitude towards medical information

Knowing how to formulate a research question/hypothesis

Selecting and applying appropriate statistical and methodological tools to address the question

Disseminating the findings of a study appropriately

Understanding the principles of research, research ethics and scholarly inquiry

Demonstrating knowledge of international, national, state/provincial/territory and district/local codes, principles and declarations regarding the ethical conduct of research

Demonstrating knowledge of the principles of informed consent

Being familiar with a range of sources of research publications and electronic

literature databases

Being familiar with scientific styles of writing (eg, research grants, journal publications)

Understanding the process of peer review

Knowing how to identify sources of research funding

Self leadership skills

By the end of training a resident should:

Be able to:

Exhibit self leadership skills

Demonstrate time-management and prioritization skills

Demonstrate effective delegation and follow-up skills

Demonstrate problem solving and management skills that enable independent decision making based upon best available evidence

Identify stressors and takes action to minimize their effects

Effectively manage stressful situations that may arise, and ask for help appropriately

Leadership in crisis resource management (problem solving, situational awareness, communication skills and resource management)

Effectively manage personal and professional development

Cultivate the ability to identify one's own mistakes and learn from them

Manage relationships effectively, including those with patients and their families, colleagues, and the broader health care team

Effectively manage the balance between work life and home life

Recognize and respond to personal and professional limitations

Management skills

At the end of training a resident **should**:

Have exposure to the concepts of managing a practice ethically and efficiently, including finances and human resources

Be able to:

Effectively implement the following management skills:

An ability to effectively manage tasks including prioritizing, assigning and delegating; prioritizing and re-prioritizing clinical tasks day-to-day and during medical emergency situations; ensuring tasks are progressing as planned

Coaching and mentoring as appropriate

Conducting a staff performance appraisal

Giving appropriate and helpful feedback to staff

Maintaining comprehensive, timely, and legible medical records including patient documents, business applications, hospital documents, and legal documents

General

By the end of training residents must:

Understand that families will often have access to information sources outside the care setting (eg, Internet)

Be able to:

Effectively communicate with patients (children and youth), families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds (including, where required, through the use of translators or interpreters)

Use simple language that children and parents can understand, to explain diagnoses and therapeutic approaches (ie, avoid using complex medical terminology and jargon)

Communicate with patients in a developmentally appropriate manner in order to create and sustain appropriate therapeutic relationships

Take a family centered approach when communicating recommendations, alternatives and uncertainties, while demonstrating an understanding of patient/family anxieties and point of view

Clearly communicate clinical reasoning via case notes, letters, discharge summaries and oral case presentation that facilitate understanding by other members of the healthcare team

Effectively manage family questions and perceptions in a supportive manner

Compassionately discuss end-of-life issues and the breaking of bad news (see also Palliative Care)

Maintain appropriate communications with parents and family members during transition of care from/to different care settings (eg, from primary to tertiary care centers)

Listening skills

By the end of training a resident must:

Be able to:

Demonstrate active listening by:

- Making appropriate eye contact
- Asking open-ended questions
- Attending to verbal and non-verbal cues
- Clarifying information provided by patient

- Clarifying patient's understanding of information delivered

Communication with other professionals

By the end of training a resident must:

Be able to:

Communicate effectively with other health care professionals

Use conflict resolution skills to facilitate team interactions and manage conflict

Communicate effectively with referring physicians and when referring a patient to another specialist

Effectively communicate with physicians, other health professionals, and health related agencies

Communicate effectively for purposes of continuity of care

Use appropriate communication elements required for safe and effective transfer of care between:

- medical professionals within an institution
- inpatient and outpatient physicians
- primary and secondary care physicians
- different institutions
- hospital and home
- medical and non-medical caregivers

Responding to individual patient health needs

By the end of training a residents must:

Understand the relevant political, governmental, and institutional systems relating to children's health care

Know the relevant key national policies, practices and laws, which affect specific groups of children

Be able to:

Demonstrate an appreciation of the distinctiveness of health care needs of children and adults

Identify of the unique vulnerability of the child to social, resource and environmental disruptions or stress including war, refugee status, natural/manmade disasters

Identify the intersections between growth, development, health, illness, public policy and child well being

Identify the essential role of the pediatrician within the family, community, school and political structures

Identify opportunities for advocacy, health promotion and disease prevention to individuals and the communities they provide care

Describe the practice communities that they serve

Adapt clinical and patient care guidelines and protocols to local settings

Appreciate the possibility of competing interests between the communities served and other groups, eg, governments

Identify the determinants of health of children, including barriers to access to care and resources

Provide care in differentially resourced settings

Identify vulnerable or marginalized populations and respond appropriately (e.g. homeless, and children living in poverty)

Describe the impact of public policy on child health

Identify the role of government, and non-governmental organizations and community groups in developing health policies and advocating for children and youth

Describe the ethical and professional issues inherent in health advocacy, including altruism, social justice, autonomy, integrity and idealism

Identify strategies in advocacy including issue identification, data analysis,

messaging, audience selection, persistence and evaluation

Providing effective health care in local communities

By the end of training a resident must:

Be able to:

Establish health priorities for a geographically specific area, drawing on the best evidence of burden of disease and risk factors

Appraise existing primary care practice and community health programs, and advise on appropriate modification, with particular reference to child health and nutrition, maternal health, non-communicable disease, and infectious diseases

Evaluate the effectiveness of primary care practice and community health care programs including:

- Operational effectiveness and the quality of care provided
- Health outcomes achieved/ possible
- Respond to equity indicators such as service coverage

Be responsive to vulnerable groups (eg, pre-term infants)

Strengthen functional links between primary care and other child and maternal public health efforts

General

By the end of training a resident **should**:

Understand that medical professionalism is reflected in attitudes, behaviors, character, and standards of practice

Understand that professionalism requires familiarity with the ethical codes and standards established by international, governmental, institutional or professional organizations

Be able to:

Define the term "medical professionalism"

Identify the "values" of medicine as a profession

Explain how to value and use feedback in personal and professional development

Recognize the elements and the role of the physician component of the patient-physician relationship

Professional attributes

By the end of training a resident **should**:

Be able to display the following:

Honesty, probity and ethical commitment

Commitment to delivering the highest quality of care

Critical and self-critical abilities (reflective practice)

Compassion, integrity and respect for others

Respect confidentiality of patients, particularly adolescents, as well as family members

Ability to maintain privacy and confidentiality in all patient encounters

Empathy

Interpersonal skills

Responsiveness to patient needs that supersede self-interest

Professional work actions

By the end of training a resident **should**:

Be able to:

Recognize limits and ask for help

Seek consent for conduct of medical procedures and treatments

Work autonomously when necessary

Solve problems

Make decisions

Work in a multidisciplinary team

Communicate with experts in non-medical disciplines

Apply appropriate and effective communication techniques to obtain consent

Identify the complexity of proxy consent and the capability of the child to participate in the consent process based on chronological age, developmental age, illness and handicap

Have the capacity to adapt to new situations and deal with uncertainty

Have the capacity for organization and planning including time management

Comply with all legal and moral obligations for reporting diseases and potential or real abuse/neglect

Discuss all treatment options regardless of health insurance or financial status of the patient

Respond to situations where the well being of the child is endangered/compromised (eg. Parent declining therapy, not comprehending treatment plan)

Identify special issues pertaining to children participating in research

The pediatrician as expert

By the end of training a resident **should**:

Be able to:

Display the following

- A capacity for analysis and synthesis
- A commitment in maintaining one's competence through lifelong self-directed learning and continuous professional development
- A capacity for applying knowledge in practice

Demonstrate teaching skills

Demonstrate research skills

Demonstrate leadership skills

The global pediatrician

By the end of training a resident **should**:

Be able to:

Demonstrate an understanding of the different cultures and customs of

migrant populations

Show sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion and disabilities

Demonstrate ability to work in an international context

Demonstrate responsible use of environmental resources

Demonstrate accountability to patients, society and the profession