**Appendix 1: 2012 Rookie Camp Objectives**

*Medical Expert*

* Name common craniotomy instruments and their use
* Use basic neurosurgical power tools in performing a craniotomy
* Demonstrate the ability to use a Hudson brace to create a burrhole.
* Position the skull and outline the intended scalp incision based on imaging for the 3 basic craniotomies: pterional, trauma and suboccipital
* Recognize surface landmarks for, and brain anatomy exposed by 3 basic craniotomies (pterional, trauma and suboccipital)
* Describe the unique features and considerations with respect to the pediatric skull
* Systematically interpret a CT scan
* Outline the physiology of hyponatremia and the immediate and longer term treatment options
* Explain the physics and mechanics of how shunt systems work
* List the procedural steps in the insertion of a ventriculo-peritoneal shunt
* Insert an external ventricular drain the using the traditional landmarks and correctly attach to an external ventricular collection system
* Demonstrate the ability to assess and troubleshoot the functionality of an external ventricular drain
* Recognize and describe the anatomical explanation for a cranial nerve III palsy
* Differentiate radicular from non-radicular back and neck pains
* Demonstrate proper techniques in prepping and draping
* Demonstrate ability to suture and knot tie
* Become familiar with the basic use of the endoscope
* Demonstrate important anatomical landmarks in the transsphenoidal approach to the anterior skull base
* Perform a virtual reality simulated neurosurgical procedure with real-time feedback
* Understand basic principles in evaluating and initially managing a patient with a spinal cord injury
* Demonstrate appropriate halo application and show how this is used in cervical traction/reduction
* Demonstrate how to perform a lumbar puncture, including the preparation for the procedure, finding the appropriate level and collection of the CSF
* Demonstrate how to set up and connect a lumbar drainage system

*Communicator:*

* Effectively communicate a management plan to a senior resident or staff
* Effectively communicate overnight on-call update on morning neurosurgery resident rounds
* Communicate to peers the condition of a neurosurgical patient
* Demonstrate, using role play, how to effectively deliver bad news
* Obtain informed consent for a lumber discectomy
* Write orders for a lumbar drainage system

*Collaborator:*

* Describe two ways to be an effective team member
* Collaborate as part of a team to ensure early resuscitation and appropriate communication strategies in the emergency room

*Manager:*

* Discuss a strategy to prioritize your working day

*Health Advocate:*

* Demonstrate leadership and situational awareness to ensure patient safety during a neurosurgery emergency

*Professional:*

* Understand operating room etiquette, call schedules and resident roles