

PICU COS and COS-E

Global Domain	Definition	Sub-Domain	Definition
Cognitive Function	General skills related to how the critically ill child takes in information, thinks, learns, and interacts with the world around them. They may involve the ability to communicate with others or to focus on, think about, comprehend and remember information. These skills typically advance over time as children develop.	Child Communication	Impact of critical illness on the child's ability to process information exchanged between individuals through a common system of symbols, signs, or behavior.
Emotional Function	General effects on the critically ill child's mental health, emotional experiences and functioning. This includes, but is not limited to: mood and feelings of joy, anger, hope, fear, and sadness; ability to identify and express feelings; and diagnoses or symptoms of anxiety, depression, and post-traumatic stress disorder.	*Mood and Feelings	A critically ill child's positive (e.g., joy or happiness) or negative (e.g., sadness, fear) views and feelings about himself/herself and the ability to manage his/her feelings and mood.
		*Post-Traumatic Stress Disorder: Symptoms and Growth	A critically ill child's response to a traumatic event including his/her ability to regulate negative thoughts, feelings, arousal and reactive symptoms, and fear/anxiety of medical encounters.

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Overall Health	The overall impact of the child's critical illness on their physical, social, emotional, and cognitive function including activities of daily living, sleep and pain.	Child Survival	The critically ill child's ability to survive to an expected or determined endpoint.
		Child Health - Related to Quality of Life	A comprehensive measure of how the critically ill child's health affects his/her perception of life satisfaction or enjoyment.
		Child Pain	A range of physical or emotional distress experienced by the critically ill child due to pain from the critical illness.
		*New Medical Conditions or Diseases	The impact of the critical illness on a child's susceptibility to developing new medical conditions or diseases (e.g., seizures and epilepsy).
		*Overall Development	The impact of critical illness on the child's development and adaptations in function and growth. Refers to age appropriate behaviors and skills that child needs to develop to function well in daily life.
		*Sleep	Impact of critical illness on the child's sleep quality and quantity.
		*Trajectory of Recovery	The impact of critical illness on child's ability to regain cognitive, physical, and other functions over time including ongoing symptoms that impede function.

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Physical Function	The general ability of the critically ill child's body to support movement, strength, and age-appropriate functions related to essential activities necessary to maintain health and well-being in addition to nonessential activities that impact the quality of life.	*Organ Function	Function as measured by medical tests, calculations, or tools used to diagnose the severity, duration, and number of organ or system dysfunctions of the critically ill child (e.g. Pulmonary Function Tests (PFT's), echocardiogram to evaluate cardiac function, laboratory tests to evaluate kidney function, Pediatric Logistic Organ Dysfunction (PELOD) score, Proulx Multiple Organ Dysfunction Criteria).
		*Physical Mobility	The critically ill child's activities of physical mobility (e.g. getting out of a bed/chair, running, picking up objects).
		*Sensory Functions	Functions related to how the critically ill child senses the external environment (e.g. hearing, vision, touch).
		*Medical Frailty	The critically ill child's worsening cycle and diminished strength and tolerance for exertion that increases susceptibility to chronic disease and disability. Often characterized by muscle wasting and weakness, slow walking speed, reduced energy expenditure, fatigue, weight loss, exhaustion, diminished physical activity and in some cases cognitive decline.

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*Family Function	General effects on the family members' (parents/legal guardians, siblings, and significant others) emotional, social, physical and financial health and ability to recover and adapt to the critically ill child returning home.	*Family Quality of Life	A measure of how a child's critical illness affects the family's perception of life, satisfaction, or enjoyment.
		*Family Relationships	Impact on family relationships related to the child's critical illness hospitalization and return home (could be positive or negative and includes parents/legal guardians' separation and/or divorce).
		*Parent/Guardian Emotional Health and Function	Impact of critical illness on parent/legal guardian's mental health, emotional experiences and functioning. This includes but is not limited to mood and feelings of joy and anger, fear; ability to identify and express feelings and diagnoses or symptoms of anxiety, depression and post-traumatic stress.
		*Parent/Guardian Overall Health	The overall impact of the child's critical illness on the parent/legal guardian's physical, social, emotional, and cognitive function including activities of daily living, sleep and pain.