# SARA Plus and Task-Specific Training in a Patient with Anoxic Encephalopathy

# **PURPOSE:**

Anoxic encephalopathy is an injury to the brain th occurs when the brain is deprived of oxygen for to long.<sup>1</sup>Due to the extent of the injury, anoxic encephalopathy is the primary cause of death in of inpatient cardiac arrest and 23% of out of hosp cardiac arrests.<sup>2</sup>

The purpose of this case report is to describe benefits of using a task-specific approach and SARA plus to improve balance and gait in a patient with anoxic encephalopathy.

# **CASE DESCRIPTION:**

**Body Structure/Function:** Anoxic encephalopathy Hypotonic R UE, LE, and L LE Hypertonic L UE A&O x 1 with cuing

**Personal Factors** 49 years old Male Single father of three girls

**Activity Restrictions:** Unable to ambulate independently Max A x 3 for transfers Unable to perform any **ADLs independently** 

### **Environmental Factors Small business owner**

**Participation Restriction** Unable to go to conce and movies with his friends and family Unable to work at his business



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# **METHODS:**

nat		Interventions
oo 68% bital	Week 1	<ul> <li>PROM</li> <li>Stretching</li> <li>Bed mobility</li> <li>Balance: forward trunk reaches and lateral trunk reaches</li> </ul>
s in each of the second	Week 2	<ul> <li>Static sitting balance</li> <li>Cervical AAROM in all direction</li> <li>Standing in SARA Plus</li> </ul>
	Week 3	<ul> <li>Weight shifts, chest bumps, and standing marches in SARA plus</li> <li>AROM for hip, shoulder, ankle, knee, wrist, and elbow</li> <li>Stretching wrist and elbow flexe with Poseys</li> </ul>
	Week 4	<ul> <li>Sit to stands and mini squats using SARA plus</li> <li>Dynamic balance</li> <li>Gait training with rolling walker</li> </ul>
	Week 5	<ul> <li>Gait training with rolling walker</li> <li>Transfers</li> <li>Static and dynamic balance</li> </ul>

aches ections os, and Aplus ankle, v flexors Jats

## Outcomes

Moss Atten **Rating Scal** 

Trunk Impairment Scale

Modified Functional Reach

Gait

This case demonstrated the positive results of incorporating repetitive, task-specific, and early use of the SARA plus for gait training. With these interventions, the patient was able to ambulate 25 ft and transfer from sit to stand with the use of a rolling walker and minimum assistance. He was also able to maintain static sitting balance for 32 seconds independently and reach 17 inches outside of his base of support.

# **RESULTS**:

	Initial	Discharge
e e	48/110	68/110
ţ	0/23	5/23
	0 in	17 in
	Unable	25 ft with min A and rolling walker

# **CONCLUSION:**

# **REFERENCES:**

Please scan for reference list.

