Muscular System	1	
Decreased	Decreased venous return and	Use antiembolism stockings or intermittent
muscle strength,	decreased cardiac output	compression devices to promote venous
tone, and	Decreased metabolism and	return (monitor circulatory and
endurance	need for oxygen	neurovascular status of extremities when
		such devices are used).
	Decreased exercise tolerance	Plan play activities to use uninvolved extremities.
	Bone demineralization	Place in upright posture when possible.
Disuse atrophy	Catabolism	Have patient perform range-of-motion,
and loss of	Loss of strength	active, passive, and stretching exercises.
muscle mass		
Loss of joint	Contractures, ankylosis of	Maintain correct body alignment.
mobility	joints	Use joint splints as indicated to prevent
		further deformity.
		Maintain range of motion.
Weak back	Secondary spinal deformities	Maintain body alignment.
muscles		
Weak abdominal	Impaired respiration	See nursing considerations for respiratory
muscles		system.
Skeletal System		
Bone	Negative bone calcium	With paralysis, use upright posture on tilt
demineralization		table.
-osteoporosis,	Pathologic fractures	Handle extremities carefully when turning
hypercalcemia	Calcium deposits	and positioning.
J 1	Extraosseous bone	Administer calcium-mobilizing drugs
	formation, especially at	(diphosphonates) and normal saline
	hip, knee, elbow, and	infusions if ordered.
	shoulder	Ensure adequate intake of fluid; monitor
	Renal calculi	output.
	renar carean	Acidify urine.
		Promptly treat urinary tract infections.
Negative bone	Life-threatening electrolyte	Monitor serum calcium levels.
calcium uptake	imbalance	Provide electrolyte replacement as indicated
Metabolism	inibalance	1 Tovide electrory te replacement as malcated
Decreased	Classing of all systems	Mobilizo as soon as possible
metabolic rate	Slowing of all systems Decreased food intake	Mobilize as soon as possible.
metabolic rate	Decreased 1000 Intake	Have patient perform active and passive
		resistance exercises and deep-breathing
		exercises.
		Ensure adequate food intake.
N T (*	D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Provide a high-protein, high-fiber diet.
Negative	Decline in nutritional state	Encourage small, frequent feedings with
nitrogen balance		protein and preferred foods.
	Impaired healing	Prevent pressure areas.
Hypercalcemia	Electrolyte imbalance	See nursing consideration for skeletal system
Decreased	Decreased physical and	Identify causes of stress.
production of	emotional coping capacity	Implement appropriate interventions to
stress hormones		lower physical and psychosocial stresses.
Cardiovascular S	ystem	
Decreased	Inability to adapt readily to	Monitor peripheral pulses and skin
efficiency of	upright position	temperature changes.
orthostatic	(orthostatic intolerance)	Use antiembolism stockings or intermittent
neurovascular	Pooling of blood in	compression devices to decrease pooling
reflexes	extremities in upright	when upright.
TOTICACO	posture	
Diminished	Orthostatic intolerance with	Provide abdominal support.
		In severe cases, use anti-gravitational pants
vasopressor mechanism	syncope, hypertension, deceased cerebral blood flow,	
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