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Burn injury Initial assessment

Adult Health Nursing | Initial assessment

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Fictional educational example. Individualize using verified patient findings, authorized treatment and current local protocols. No real patient record or observed outcome is claimed.

Clinical assessment

Subjective: Severe pain and concern about skin damage.

Objective findings and required checks: Burn depth and area require trained assessment; airway exposure and circulation need review.

Physical examination and investigations: Assess airway risk, burn area and depth, observations, perfusion and ordered investigations.

Supply actual values, units, timing and trends during supervised application. Do not invent missing clinical data.

Clinical focus and pathophysiology

Burn injury: Thermal injury disrupts the skin barrier and may cause major fluid shifts and systemic effects.

Medical / surgical management

Stop ongoing exposure, follow the burn-care pathway, protect wounds and provide prescribed analgesia and individualized fluid care.

Illustrative drug and treatment study

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Medicine / treatment	Purpose	Nursing checks
Prescribed analgesic	Treat burn pain	Monitor breathing and sedation
prescribed IV fluid	Support significant burn resuscitation when indicated	Use the specialist plan and reassessment rather than an unsupervised formula.

Treatment examples are not a prescription. Verify the authorized product, dose, route, timing, contraindications and current local product information.

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Nursing care plan

Nursing diagnoses use original clinical problem wording. They are not the licensed NANDA-I classification. Verify any formal label or code against your institution's licensed current edition; select actual or risk diagnoses only when supported by assessment.

Context task: Establish the immediate clinical priorities and verify the baseline before assuming a diagnosis.

Set individualized measurable targets and an exact review time. Select actual or risk statements only when supported by assessment.

Assessment: subjective / objective	Nursing diagnosis: original problem wording	Short- and longer-term goals	Nursing interventions with rationale	Evaluation
Ask: Ask about discomfort, usual mobility and ability to reposition. Assess: Inspect skin, pressure points, wound characteristics and moisture exposure.	Skin damage or vulnerability to pressure-related injury. Possible factors: pressure, moisture, impaired sensation or tissue injury. Validate against the patient's assessment.	Short-term: After the first indicated intervention, at the documented review time: Skin is protected and existing damage shows no avoidable deterioration. Longer-term: Before the clinically approved transition or agreed follow-up: Patient or caregiver demonstrates the individualized skin-protection plan.	1. Assess skin and pressure risk using the local tool and clinical judgment. Rationale: Risk identification guides targeted prevention. 2. Individualize repositioning, heel offloading and pressure redistribution. Rationale: Reducing sustained pressure and shear protects tissue perfusion. 3. Use appropriate wound care and moisture management; refer for nutrition or specialist advice when needed. Rationale: Healing requires local protection and support for underlying contributors. 4. Stop ongoing exposure, follow the burn-care pathway, protect wounds and provide prescribed analgesia and individualized fluid care. Rationale: Thermal injury disrupts the skin barrier and may cause major fluid shifts and systemic effects. The condition-specific plan addresses the underlying problem while response is monitored.	Record the baseline and reassessed finding, the time and whether this goal is met, partly met or not met. If not met, reassess causes and revise or escalate. Do not record an unobserved improvement.

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Assessment: subjective / objective	Nursing diagnosis: original problem wording	Short- and longer-term goals	Nursing interventions with rationale	Evaluation
Ask: Ask about pain site, onset, severity, quality and the patient's acceptable pain level. Assess: Observe guarding, expression and effect on movement; use an appropriate pain scale.	Pain interfering with rest or activity. Possible factors: tissue irritation, injury or the underlying condition. Validate against the patient's assessment.	Short-term: After the first indicated intervention, at the documented review time: Pain decreases toward the patient-agreed target after reassessment. Longer-term: Before the clinically approved transition or agreed follow-up: Uses agreed comfort strategies and explains when new or worsening pain needs review.	1. Assess pain and associated red flags before and after treatment. Rationale: Changing pain may signal a complication and helps evaluate relief. 2. Provide comfortable positioning, reassurance and appropriate non-drug measures. Rationale: Comfort measures can reduce distress and complement prescribed treatment. 3. Give prescribed analgesia and monitor sedation, breathing and other adverse effects. Rationale: Relief should improve function without creating medication-related harm.	Record the baseline and reassessed finding, the time and whether this goal is met, partly met or not met. If not met, reassess causes and revise or escalate. Do not record an unobserved improvement.
Ask: Ask about thirst, intake, vomiting, stools and dizziness. Assess: Monitor weight trend, intake/output, mucosa, circulation and relevant electrolytes.	Insufficient fluid replacement for current losses. Possible factors: intake below requirements or increased fluid loss. Validate against the patient's assessment.	Short-term: After the first indicated intervention, at the documented review time: Hydration and circulation improve within the agreed reassessment interval. Longer-term: Before the clinically approved transition or agreed follow-up: Patient or caregiver explains the individualized fluid plan and warning signs.	1. Measure intake and losses using age-appropriate methods. Rationale: Accurate trends guide replacement and help prevent overcorrection. 2. Offer oral fluids only when swallowing, consciousness and the treatment plan permit; otherwise implement prescribed replacement. Rationale: The safest route depends on aspiration risk and clinical severity. 3. Reassess perfusion, weight and laboratory trends after prescribed replacement. Rationale: Both continued dehydration and fluid overload require prompt recognition.	Record the baseline and reassessed finding, the time and whether this goal is met, partly met or not met. If not met, reassess causes and revise or escalate. Do not record an unobserved improvement.

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Assessment: subjective / objective	Nursing diagnosis: original problem wording	Short- and longer-term goals	Nursing interventions with rationale	Evaluation
Ask: Ask what the learner already knows and wants to understand. Assess: Use teach-back or demonstration to identify specific gaps.	Learning needs about the condition and care plan. Possible factors: new information, complex treatment or limited prior teaching. Validate against the patient's assessment.	Short-term: After the first indicated intervention, at the documented review time: Explains the most important immediate action in their own words. Longer-term: Before the clinically approved transition or agreed follow-up: Demonstrates the agreed care skills and names follow-up and warning signs.	1. Assess language, literacy, hearing, vision and preferred learning method. Rationale: Accessible teaching improves understanding. 2. Teach a few condition-specific points using plain language and demonstration. Rationale: Focused information is easier to retain and apply. 3. Use teach-back, correct misunderstandings and provide an accessible written plan. Rationale: Checking understanding supports safer self-management. 4. Explain wound protection, infection signs, nutrition, rehabilitation and scar follow-up. Rationale: Condition-specific teaching connects the treatment plan to safe continuing care.	Record the baseline and reassessed finding, the time and whether this goal is met, partly met or not met. If not met, reassess causes and revise or escalate. Do not record an unobserved improvement.

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Health education and continuing care

Explain wound protection, infection signs, nutrition, rehabilitation and scar follow-up.

Transition only after clinical readiness is confirmed. Reconcile medicines, check access and caregiver support, and document who will review the patient and when.

Urgent warning signs

Facial burns with airway symptoms, smoke exposure, shock or circumferential limb compromise requires emergency specialist care.

Evaluation and conclusion

For each goal, document met, partly met or not met using observed evidence and the review time. Reassess and revise if progress is inadequate. Individual assessment, prioritized care and coordinated review guide this topic.

Quick Revision

- Thermal injury disrupts the skin barrier and may cause major fluid shifts and systemic effects.

- Priority concerns: Skin damage or vulnerability to pressure-related injury; Pain interfering with rest or activity; Insufficient fluid replacement for current losses; Learning needs about the condition and care plan.

- Facial burns with airway symptoms, smoke exposure, shock or circumferential limb compromise requires emergency specialist care.

- Explain wound protection, infection signs, nutrition, rehabilitation and scar follow-up.

Exam / viva: Which finding changes the order of priorities, and what must be escalated immediately?

References

Nursing Fundamentals, 2e - Ernstmeyer & Christman (editors), Open RN / WisTech Open, 2024
https://wtcs.pressbooks.pub/nursingfundamentals/

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https://wtcs.pressbooks.pub/pharmacology2e/

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