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Question: 1187

Ethics protocol amendment: original consent targets adults, but 14% minors identified. Belmont revision?

- A. Waiver for minors as vulnerable waived
- B. Assent process with LAR permission tiered by maturity
- C. Exclude minors maintaining adult-only cohort
- D. Proxy consent without child assent

Answer: B

Explanation: Assent process with LAR permission tiered by maturity upholds respect for minor persons while protecting vulnerability, core Belmont justice principle per 2026 pediatric forensic ethics. Exclusion discriminatory, waiver inappropriate, proxy bypasses assent.

Question: 1188

Elder ligature neck self-note, oblique furrow petechiae minimal, ME certifies suicide manner post-tox negative impairment.

- A. Undetermined oblique furrow
- B. Accidental autoerotic
- C. Suicide confirmed negative impairment
- D. Homicide staging ligature

Answer: C

Explanation: Note, furrow pattern, sober tox certify suicide; autoerotic shows concealment absent. Staging inconsistent indicators.

Question: 1189

In civil suit, Forensic Nurse opines on chain of custody break in evidence. Defense claims speculation. What supports?

- A. Advocate exclusion
- B. Ignore break
- C. Personal opinion

D. Objective review of records per standards

Answer: D

Explanation: Objective evaluation of chain compliance is within expert scope.

Question: 1190

LEO-to-nurse transfer of ligature (nylon rope, 1.1 cm dia) requires form notation of?

- A. Handler PPE status and environmental RH (52%) during handoff
- B. Length measurement
- C. LEO badge number only
- D. Rope color

Answer: A

Explanation: PPE/RH prevents fiber shedding claims during transfer. Color descriptive. Length analytical. Badge standard.

Question: 1191

All documentation: timed entries, body diagrams with measurements from midline/nipple, photo chain custody, narrative objective. SART standard.

- A. Narrative only
- B. Omit patient words
- C. Full medicolegal with measurements/midline
- D. Photos without scale

Answer: C

Explanation: 2026 standards require precise anatomical location (midline/nipple ref), timed objective narrative, scaled photos, chain of custody for admissibility.

Question: 1192

An advanced forensic nurse designs a qualitative study on forensic nurses' experiences during mass casualty strangulation events. Which research ethics safeguard best protects participants from secondary trauma?

- A. Anonymous surveys
- B. Trauma-informed interviewing with pre-assessment, structured debriefing, and immediate mental health referral access
- C. Waiver of consent
- D. Focus groups only

Answer: B

Explanation: Trauma-informed interviewing with pre-assessment, structured debriefing, and immediate mental health referral access upholds highest ethical standards by actively minimizing harm in studies involving trauma-exposed professionals.

Question: 1193

Bloodstain pattern on ceiling shows projected spatter with drop diameter 0.4 mm. 2026 reconstruction calculates impact velocity using what formula adjustment for 45° angle?

- A. $V = \sqrt{2gh / \sin^2\theta}$ yielding 8.2 m/s
- B. $V = 2\sqrt{gh \tan\theta}$ 11.5 m/s
- C. $V = \sqrt{gh / \cos\theta}$ 7.1 m/s
- D. $V = \sqrt{2gh}$ standard 9.8 m/s

Answer: A

Explanation: Adjusted velocity for angle uses $V = \sqrt{2gh / \sin^2\theta}$ where $\theta=45^\circ$, $\sin 45=0.707$, yielding 8.2 m/s for typical fall height $h=1.5\text{m}$, per 2026 BPA standards accounting projection. Standard ignores angle. Others misapply trigonometry.

Question: 1194

Criminal arson investigation forensic nurse treats smoke inhalation victim carboxyhemoglobin 48% soot endotracheal 3rd spacing 40% TBS

- A. Defense cross-examines accelerant contribution. Nurse testifies.
- A. Thermal injury 3rd spacing fluid shift
- B. Accidental heater malfunction
- C. Cyanide combustion product lethal
- D. CO poisoning primary respiratory

Answer: A

Explanation: Parkland formula $4\text{mL}/\text{kg}/\%TBSA$ quantifies resuscitation distinguishing CO (neurologic), cyanide (lactic acidosis), accidental (no soot ETT); Rule 26 expert disclosure calculations.

Question: 1195

Mandatory reporting dilemma 25-year-old developmentally delayed IQ 68, bruises bilateral upper arms thumb shaped, partner "helping bathe." Capacity assessment.

- A. Domestic dispute police referral
- B. Capacity intact adult non-reportable
- C. Vulnerable adult mandatory reporting
- D. Caregiver education bathing technique

Answer: C

Explanation: Developmental disability bruises indicates vulnerable adult mandatory distinguishing capacity (functional assessment), dispute (patterned), education (perpetrator ally); APS specialized investigators 2026 protocols.

Question: 1196

In a case involving alleged elder abuse, an 82-year-old patient has multiple full-thickness burns with leathery eschar on the dorsum of hands and lower legs in a symmetrical stocking-glove distribution with sharp mid-thigh demarcation. Creatine kinase is 3200 U/L with myoglobinuria. Advanced forensic assessment interprets this as:

- A. Accidental flame contact
- B. Chemical alkali splash
- C. Forced immersion scald with restraint
- D. Contact burn from self-neglect

Answer: C

Explanation: Symmetrical sharp-bordered immersion burns with restraint patterns (stocking-glove) are hallmark of inflicted scalding, often in abuse. Elevated CK/myoglobinuria indicates rhabdomyolysis from prolonged muscle compression during restraint, necessitating correlation with caregiver history and anatomical mapping for abuse determination.

Question: 1197

A patient with HIV discloses status during exam but requests nondisclosure to law enforcement. The nurse knows partner notification laws apply. The correct approach is to:

- A. Require patient to notify partners
- B. Maintain confidentiality unless mandated
- C. Disclose status to authorities

D. Report as public health hazard

Answer: B

Explanation: Confidentiality prevails unless specific mandatory disclosure statutes apply; beneficence includes counseling on notification.

Question: 1198

Custody log for semen swab (PSA 2500 ng/mL) misses nurse-to-officer transfer at 0200. Legal consequence under 2026?

- A. Verbal logs acceptable
- B. Automatic admission via lab confirmation
- C. No issue post-DNA match
- D. Potential exclusion if gap questions authenticity

Answer: D

Explanation: Gap invites tampering presumption, risking exclusion. Match secondary. Verbal invalid.

Question: 1199

Geriatric psychological abuse LTC, passive suicidal ideation GDS-15 11/15, weight loss 20% 6 months, staff "non-compliant" feeds. Neurobiology.

- A. Dementia apathy progression
- B. Chronic invalidation learned helplessness
- C. Medication polypharmacy GI
- D. Depression appetite suppression

Answer: B

Explanation: Staff invalidation produces learned helplessness hypothalamic appetite suppression distinguishing depression (anhedonia primary), dementia (cognitive), polypharm (nausea); GDS screens elder mistreatment covert.

Question: 1200

Governance post-incident review: photo chain breach (metadata altered). Framework gap?

- A. Blockchain timestamping for immutable audit trail

- B. Manual chain forms
- C. Annual security awareness training
- D. External storage offsite

Answer: A

Explanation: Blockchain timestamping for immutable audit trail provides tamper-proof governance for digital evidence, emerging 2026 standard. Training behavioral, forms forgeable, storage physical.

Question: 1201

Digital photo metadata includes GPS? Risk?

- A. Patient privacy breach
- B. Size accuracy
- C. Chain validation
- D. Color fidelity

Answer: A

Explanation: Locates exam site.

Question: 1202

Federal Daubert hearing forensic nurse proposes 3D photogrammetry injury pattern matching boot tread suspect exclusion probability $1/10^6$. Defense challenges validation. Nurse demonstrates.

- A. Novel proprietary algorithm
- B. Peer review AFTE standards met
- C. Photographic 2D measurement
- D. Subjective visual comparison only

Answer: B

Explanation: 3D superimposition AFTE validated distinguishing novel (Daubert rejected), subjective (error prone), 2D (distortion); NIST 2026 pattern evidence standards.

Question: 1203

Hair trace (45 shafts, 12 anagen) package?

- A. Paper sack loose
- B. Petri slide mounted
- C. Folded bond paper bindle in coin envelope, no adhesive
- D. Plastic tube taped

Answer: C

Explanation: Bindle secures without loss/stick, coin rigid, no adhesive preserves roots. Tape contaminates. Sack loss. Mount alters.

Question: 1204

Beveled sharp wound edges indicate:

- A. Defensive
- B. Angled directional thrust
- C. Perpendicular insertion
- D. Exit

Answer: B

Explanation: Beveling reflects entry angle.

Question: 1205

Knowledge translation stalled for 2026 guideline recommending nuchal swabs in 82% strangulation cases (DNA yield 14%). ED compliance 41%. Forensic nurse KT lead implements audit-feedback cycle. What enhances translation effect size?

- A. Provider-selected swab cases only
- B. Benchmarking against top-quartile performers publicly
- C. Monthly didactic presentations on swab technique
- D. One-time laminated posters at workstations

Answer: B

Explanation: Benchmarking against top-quartile performers publicly leverages social comparison and accountability, boosting compliance >20% in KT trials per 2026 forensic guideline dissemination frameworks. Didactics transient, posters passive, selection undermines standardization.

Question: 1206

Smartwatch accelerometer data logs 47g deceleration in assault. 2026 classifies as?

- A. Digital adjunct corroborating injury mechanism
- B. Biological stress biomarker
- C. Trace wearable particulate
- D. Pattern acceleration map

Answer: A

Explanation: Accelerometer quantifies force for biomech correlation, digital adjunct to physical findings per 2026 protocols, not biological/trace/pattern standalone.

Question: 1207

Child neglect 22-month-old failure-to-thrive, weight <5th percentile, linear clavicular fx healing 4 weeks, multiple rib fx different stages, phosphate 1.8 mg/dL rickets. Multifactorial assessment.

- A. Neglect nutritional deficiency alone
- B. Natural rickets multiple fx cascade
- C. Osteogenesis imperfecta genetic
- D. Non-accidental trauma metabolic overlay

Answer: D

Explanation: Multiple fx different healing stages with hypophosphatemia indicates non-accidental trauma exploiting metabolic bone disease distinguishing nutritional (no fx), genetic (blue sclerae absent), natural progression (single fx); CPS multidisciplinary confirms.

Question: 1208

Evaluation HVIP cost-benefit: \$1.2M invested, \$3.7M assault costs averted (BCR 3.1), sensitivity analysis $\pm 20\%$ inputs. Robustness?

- A. ROI percentage calculation only
- B. Deterministic one-way sensitivity tornado diagram
- C. Break-even analysis threshold
- D. Monte Carlo simulation confirming 95% probability $BCR > 1$

Answer: D

Explanation: Monte Carlo simulation confirming 95% probability $BCR > 1$ tests parameter uncertainty comprehensively, validating evaluation per 2026 forensic economic modeling standards. One-way limited,

break-even point-specific, ROI simplistic.

Question: 1209

Vehicle fire death: charred occupant, nurse notes pre-fire livor feet before suppression, collects trace fabric swatch with gloved tweezers into paper bindle.

- A. Ignore trace charring destroys
- B. Paper bindle for fabric swatch
- C. Plastic bag for fabric trace
- D. Touch with bare hands

Answer: B

Explanation: Trace evidence handling uses breathable paper bindles preventing moisture degradation; plastic causes condensation ruining DNA. Gloves mandatory contamination prevention.

Question: 1210

An advanced forensic nurse analyzes emergency department data showing that patients experiencing human trafficking are 7.8 times more likely to present with chronic pain diagnoses (95% CI 5.6–10.9) than matched controls. Which clinical screening adjustment is most supported by current evidence?

- A. Routine toxicology screening for substances commonly used in labor and sex trafficking
- B. Mandatory social work consultation for all patients with unexplained chronic pain under age 30
- C. Integration of pain severity scores into trafficking risk stratification algorithms
- D. Addition of a validated chronic pain-trafficking intersection question to existing screening tools

Answer: D

Explanation: Addition of specific validated items addressing chronic pain as a potential indicator of trafficking improves case identification sensitivity without increasing false positives, according to 2025–2026 validation studies.

Question: 1211

Trace fiber clumping from static; integrity restore?

- A. Manual tease
- B. Ionizer bar exposure (5000 V/cm) documented

- C. Solvent rinse
- D. Heat tumble

Answer: B

Explanation: Ionizer neutralizes without morphology change. Solvent dissolves. Heat melts. Tease risks loss.

Question: 1212

Geriatric institutional abuse 88-year-old dementia unit unexplained hip fx right intracapsular displaced, morphine 4 mg IV q3h recent order, resident roommate hx aggression. Investigation.

- A. Neglect repositioning failure
- B. Accidental dementia wander fx
- C. Chemical restraint overdose iatrogenic
- D. Resident-to-resident assault

Answer: D

Explanation: Unwitnessed intracapsular roommate aggressor indicates peer assault distinguishing wander (extracapsular), chemical (no fall hx), neglect (ulcers); morphine acute pain post-fx. Video audit mandatory.

Question: 1213

Ethics vulnerable populations: homeless SANE cohort study. Storage consent?

- A. Tiered consent for future unspecified research
- B. Study-specific consent only
- C. Broad consent limited to homelessness topics
- D. Waiver with community consultation

Answer: A

Explanation: Tiered consent for future unspecified research maximizes utility while respecting evolving autonomy in transient populations, innovative 2026 ethics solution. Broad restrictive, specific limits, waiver despite consultation risks exclusion.

Question: 1214

Scenario: Gunshot residue tattooing (stippled 2 cm radius) around entry wound photographed at 48 hours (faint yellow-brown). Standard mandates?

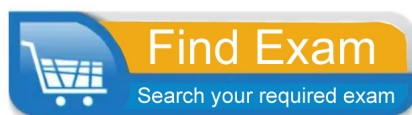
- A. Color digital RAW + scale
- B. B/W film ISO 400
- C. Infrared filter enhancement
- D. Post-healing follow-up only

Answer: A

Explanation: Color digital RAW captures evolving pigmentation/texture with scale preserves metadata for analysis; B/W obsolete, IR niche, follow-up additional.



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