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A	ccess gate-related lower limb fractures in children and dolescents: a review of injury patterns and evaluation of			3%	С
associated injuries (Phala MP, Rachuene PA, Socutshana E				2%	D
	ila KS)		e.		Ε
1.	Which of the following statements is <i>correct</i> relative to access gate-related injuries in South Africa?		aft	retrospective comparative study of complications er total knee replacement in rheumatoid arthritis and teoarthritis patients (Nansook A, Ryan P)	
a.	Motorised gates account for the majority of the injuries	Α		What is the overall complication rate in this article?	
b.	Injuries are equally observed in both motorised and manually	В		15%	Α
	operated gates			7%	В
C.	Gate falling onto the child is the most common mechanism of injury	С	C.	3%	С
d.	A and C are correct	D		40%	D
e.	All of the above statements are correct	Ε		26%	Е
2.	Which of the following statements correctly describes fracture distribution in victims of access gate injuries?			Which of the following statements is true? The study showed a higher complication rate in the	Α
a.	Femur fractures are commoner than the other lower limb	۸		rheumatoid arthritis subgroup	A
b.	fractures Tibia fractures are commoner than the other lower limb	A -		There was a statistical significance in complication rates between the groups	В
	fractures	В	C.	HIV did not increase the overall risk of complications	C
C.	Both the femur and the tibia are equally affected	С	d.	Most patients were male (87%)	D
d.	The majority of the cases will present with multiple fractures	D	e.	No complications occurred in the osteoarthritis subgroup	Е
e.	Physeal injuries were observed to be occurring around the	Е	9.	A local study by Hodkinson et al. showed that:	
3.	knee joint in this cohort Which of the following statements correctly describes inju			Despite appropriate treatment, a large proportion of RA patients still develop significant functional impairment	Α
	patterns in victims of access gate injuries?		b.	HIV is the leading cause of postoperative complications	В
a.	Compound fractures were the most commonly found fracture patterns in these patients	Α		RA patients have low functional impairment Only a small portion of patients develop complications post	С
b.	The majority of the patients have associated head injury	В		TKA	D
C.	Head injuries were commonly seen in patients with open tibia	С	e.	DVT is the most common complication	Ε
	fractures Head injuries were commonly seen in patients with femur fractures	D	wh ins	trospective audit of serum vitamin D levels in patients to underwent Latarjet procedure for anterior shoulder stability (Rachuene AP, Dey R, De Villiers S, Berry K, lder M, Du Plessis J-P, Roche S)	
	Open fractures more commonly involved the ankle joint	Е		With reference to vitamin D deficiency in young patients,	
An audit on the accuracy of freehand acetabular cup positioning in total hip arthroplasty with the direct lateral				which of the following statements is correct?	
(E	pproach at a tertiary institution over seven years Frasmus RD, Fourie PJ, Janse van Rensburg C,			Vitamin D deficiency in the young South African population is reported to be uncommon in the literature	Α
	what was the initial safe zone described by Lewinnek for			Vitamin D deficiency only affects elderly patients and children with rickets	В
a.	acetabular cup placement? 20° ± 10° anteversion and 40° ± 10° inclination	Α		Vitamin D deficiency is reported to affect over 15% of South African children	С
	15° ± 10° anteversion and 30° ± 10° inclination	В	d.	People with dark skin pigment have increased vitamin D	_
C.	15° ± 5° anteversion and 40° ± 10° inclination	С		synthesis, and hypovitaminosis D is uncommon in this population group	D
d.	15° ± 10° anteversion and 40° ± 10° inclination	D		All of the above statements are correct	Е
e.	20° ± 10° anteversion and 30° ± 10° inclination	Ε	_	Which of the following statements is <i>correct</i> regarding	
5.	What was our freehand cup placement accuracy?			Latarjet procedure?	
	37%	Α		Latarjet procedure is a successful procedure with minimal to no	Λ
b.	47%	В		risk of complications	A
	57%	С		Coracoid bone block has blood supply from the conjoint tendon, therefore non-union and resorption are not a concern	В
	67%	D		CT scan-based studies report over 90% bone block resorption	С
	77%	Е		rate following this procedure, with minimal clinical impact	
	What was our dislocation rate?			CT scan-based studies report under 10% bone block	D
a.	5%	Α		resorption rate following this procedure, with great clinical impact	D
b.	4%	В		Bone block will invariably cause recurrent instability	F

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12.	Regarding hypovitaminosis D in patients undergoing Latarjet procedure for anterior shoulder instability, which of the following statements is <i>correct</i> ?	f
a.	In the study, hypovitaminosis D was directly correlated to poor bone block union rate	Α
b.	Hypovitaminosis D is common in young patients undergoing Latarjet procedure and supplementation should be considered in these patients	В
C.	Hypovitaminosis D was shown to be associated with increased risk of bone block fracture	С
d.	Vitamin D has no impact on bone healing; therefore, it should not be considered in patients undergoing Latarjet procedure	D
e.	The study found hypovitaminosis D to affect only female patients	Ε
or Sc	ne burden of road traffic accident-related trauma to thopaedic healthcare and resource utilisation at a buth African tertiary hospital: a cost analysis study hikhathali ND, Ngcelwane MV)	
13.	Which statement is true with regard to road traffic accident (RTAs) in South Africa?	S
a.	The most common cause of trauma in South Africa is road traffic accident followed by interpersonal violence	Α
b.	RTAs cause less trauma in South Africa than interpersonal violence	В
C.	The majority of RTA trauma patients have polytrauma	С
d.	B and C only	D
e.	A, B and C	Е
14.	Regarding the burden of trauma for our institution:	
a.	The management of trauma patients does not influence the management of the non-trauma elective patients	Α
b.	The biggest cost driver in this study was hospital stay	В
C.	Management of acute fractures with external fixators does not have a significant impact on the overall costs of implants	С
d.	External fixators were the most utilised implants accounting for 40% of the implants utilised in this study	D
e.	The average number of days spent in hospital for these patients was 18 days per patient admitted	Ε
15.	Choose the <i>correct</i> statement from the options below:	
	The causes of RTA-related injuries are preventable, as putting preventative measures in place as well as applying punitive measures for the offenders will help minimise the RTAs	Α
b.	The number of mortalities from RTAs is only reflected by the number of in-hospital mortalities	В
C.	In comparison to previous studies done in Africa, the commonest mode of RTA-related injuries for this study was pedestrian-vehicle accident	С
d.	A and C only	D
e.	A, B and C	Е
	ne mechanical testing of a novel interlocking forearm nail retorius HS, Burger MC, Ferreira N)	
	The nail produced in the article is made from titanium because of its low modulus of elasticity close to that of the radius. What is the modulus of elasticity of the radius?	
a.	90–100 GPa	Α
b.	67-87 GPa	В
C.	10-17 GPa	С
d.	10–28 GPa	D
٩	34–53 GPa	F

17.	Which standardised tests are performed on the radius to evaluate the nail for strength and durability?	
a.	Four-point torsion test, static rotational test and bending test	Α
b.	Four-point rotational test, static rotational test and bending test	В
C.	Four-point bending test, static rotational test and rotational fatigue test	С
d.	Four-point bending test, static rotational test and four-point fatigue test	D
e.	Four-point rotational test, static rotational test and bending fatigue test	Ε
18.	The use of a semi-logarithmic graph is used in testing for what reason?	
a.	It is the only way to predict outcome in testing with these variables	Α
b.	It is the best way to represent graphs with vastly different X and Y values	В
C.	It is the best way to represent X and Y values with equivalent values	С
d.	It is the only way to represent X and Y values with equivalent values	D
e.	It is the best way to represent X and Y values with extremely large values	Ε
Tr im	uth or DAIR? A review of debridement, antibiotics and oplant retention (Blair NR, Van der Merwe JF, Matshidza S)
19.	A 72-year-old female underwent left total knee arthroplasty (TKA) 9 months ago. She now has new onset pain, with decreased range of motion. PJI is suspected. Based on the on the Musculoskeletal Infection Society (MSIS), which of the following, if present, can be used in isolation for the diagnosis of an infected TKA?	
a.	Elevated synovial WBC count and PMNs	Α
b.	CRP of 55 mg/l	В
C.	Sinus tract communicating with the prosthesis	C
	Purulence in the knee joint	D
d.	r didience in the knee jeint	D
e.	ESR of 60 mm/h	Е
e.	ESR of 60 mm/h In reference to debridement, antibiotics and implant retention (DAIR), which of the following statements is <i>incorrect</i> ?	Е
e.	ESR of 60 mm/h In reference to debridement, antibiotics and implant retention (DAIR), which of the following statements is <i>incorrect</i> ?	Е

- prosthesis
- c. The causative organism does not play a role in DAIR success
- d. DAIR performed for PJI after fracture arthroplasty shows an increased risk for failure compared to PJI after primary joint arthroplasty
- e. Exchange of mobile components is an independent factor related to DAIR success

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