SAOJ

SOUTH AFRICAN ORTHOPAEDIC JOURNAL

CPD QUESTIONNAIRE. MAY/JUNE 2020 VOL 19 NO 2

th	hort-term results following two-stage revision for peripro letic joint infection (Du Plessis J, Greeff R, Singh V, Fang rey CT)		6.	The study in this journal looking at dual mobility cups used for femur neck fractures found (at one year after surgery) dislocation rate of:	
1.	According to the host classification by McPherson, which the following scenarios represent a type C host?	of	a.	0%	Α
a.	A 73-year-old male with hypertension and gout, presenting with a draining sinus two months after total hip arthroplasty	Λ		1.3% 2.2%	В
b.	An 84-year-old female with diabetes and chronic obstructive pulmonary disease presents with an active draining sinus for four months following total knee arthroplasty	В		4.3% 8.5%	D E
C.	A 54-year-old male with HIV infection for the last two years and on antiretrovirals. His CD4 count is 300 and viral load undetectable. He presents three weeks following total hip arthroplasty with pain and erythema	С	kn (G	ercutaneous intra-articular tranexamic acid following to see arthroplasty without drainage to reduce blood lo ericke E, De Beer J, Deacon M, Marais LC)	
d.	A 74-year-old female with previous bicolumnar plating of a tibial plateau fracture through two incisions presents with wound breakdown following total knee arthroplasty two weeks ago	D		Which of the following methods of administrating tranexamic acid are preferred, considering outcome and possible side effects? Intravenous	Α
e.	A 62-year-old male with chronic alcoholism develops a draining sinus four weeks following total hip arthroplasty for avascular necrosis	Е	b. c.	Intra-articular Oral	ВС
2.	Which of the following do not represent an increased risk reinfection following a two-stage revision at one year?	OT	d. e.	Topical Inconclusive	D E
a.	Type C host	А		Blood loss is a common and challenging complication in total knee replacement and has been reported to range	
b.	Pus found at reimplantation stage	В		from:	
C.	Positive frozen section at time of reimplantation		a.	<300 ml	Α
d.			b.	300-500 ml	В
	Limited debridement	E	C.	500–700 ml	C
3.	The current gold standard for the management of Tsukayama 4 periprosthetic joint infection includes:			700–1 700 ml	D
a.	Two-stage revision with explant and antibiotic cement spacer, six weeks targeted antibiotics, two weeks antibiotic-free period and reimplantation when no signs of infection			>1 700 ml Regarding the biomechanical effect of tranexamic acid reducing blood loss, which is the most appropriate statement?	Ε
	Single stage revision with thorough debridement and empiric antibiotics for six weeks Thorough debridement with antibiotics and implant retention	Ь	a.	Clot formation at the surgical site is promoted due to prevention of the formation of plasmin by blocking the conversion of plasminogen to plasmin	Α
	(DAIR) followed by six weeks of antibiotics	_	h	Tranexamic acid is a synthetic antifibrinolytic, blocking	_
	Wound debridement followed by six weeks of targeted antibiotics	D	Ο.	plasminogin directly	В
L	Explant and debridement followed by arthrodesis by dislocation rates achieved when using dual mobility cup p implants for femur neck fractures (Erasmus LJ, Fourie FF,		C.	Fibrin degradation and breakdown of clots are prevented due to prevention of the formation of plasmin by blocking the conversion of plasminogen to plasmin	С
V	an der Merwe JF) Which of the following is <i>not</i> a risk factor for hip dislocatio		d.	Tranexamic acid has a higher coagulation effect given intravenously	D
	after total hip arthroplasty?		e.	Tranexamic acid potency to reduce blood loss is due to the high concentration that is achieved at the target location	Ε
	Dementia Alachal abuse	A B		e use of three-dimensional models in tibial plateau fracture	es
				oubert JA)	
	Alcohol abuse		_	According to the cuther can us impresse the velicibility	
c. d.	Age older than 60 years Psychiatric disorders	C D	_	According to the author, can we improve the reliability tibial plateau fracture classification by utilising a 3D print model (in addition to 3D CT scans)?	of ed
c. d. e.	Age older than 60 years Psychiatric disorders Neuromuscular disorders	C D	10.	tibial plateau fracture classification by utilising a 3D print model (in addition to 3D CT scans)? Yes, for both the Hohl and Moore and the Schatzker classification	ed
c. d. e.	Age older than 60 years Psychiatric disorders Neuromuscular disorders Which of the following is true regarding dual mobility cups	C D E	10. a.	tibial plateau fracture classification by utilising a 3D print model (in addition to 3D CT scans)? Yes, for both the Hohl and Moore and the Schatzker classification systems	ed
c. d. e. 5. a.	Age older than 60 years Psychiatric disorders Neuromuscular disorders	C D E S: A B	10. a.	tibial plateau fracture classification by utilising a 3D print model (in addition to 3D CT scans)? Yes, for both the Hohl and Moore and the Schatzker classification	ed
c. d. e. 5. a. b.	Age older than 60 years Psychiatric disorders Neuromuscular disorders Which of the following is true regarding dual mobility cups Has three articulations	C D E S: A B	10. a. b.	tibial plateau fracture classification by utilising a 3D print model (in addition to 3D CT scans)? Yes, for both the Hohl and Moore and the Schatzker classification systems No, 3D printed models do not improve the reliability of fracture	ed A
c. d. e. 5. a. b. c. d.	Age older than 60 years Psychiatric disorders Neuromuscular disorders Which of the following is true regarding dual mobility cups Has three articulations Has two articulations Only available in cemented options	C D E S: A B C	a. b. c.	tibial plateau fracture classification by utilising a 3D print model (in addition to 3D CT scans)? Yes, for both the Hohl and Moore and the Schatzker classification systems No, 3D printed models do not improve the reliability of fracture classification	A B

11.	Taking into consideration that this is a level 4 study, are 3D printed models useful when managing tibial plateau		Unemployed parents	С
	fractures?	d.	, 3	D
a.	Yes, because the reliability of classification is improved A		Multiple fractures in different stages of healing	E
	Yes, the use of 3D models resulted in decreased length of hospital stay and less surgical blood loss		Which of the following strategies may best decrease the number of children admitted with fractures?	Λ
C.	No, 3D printed model manufacturing only contributes to patient C		Better gun control	A B
	radiation exposure	b.	1 1 30	С
d.	Yes, observers found 3D models superior to 3D CT in terms of spatial awareness and one's ability to estimate how much bone D	c. d.	Build pedestrian sidewalks in communities Home traction treatment of femur fractures	D
	graft is required			
e.	No, 3D printed model use resulted in more patients theoretically receiving surgical management than needed		Enforce the use of child seats in cars Regarding PVAs in children, which of the following	E
	prrelation of Soft tissue Projection in Injured NEcks (CSPINE):		statements is true?	۸
	evertebral soft tissue measurement in paediatric cervical ine trauma (McCaul J, Horn A, McCaul M, Dix-Peek S)		Most fractures occur in the upper limbs	Α
_	A 10-year-old female falls off her bunk bed and presents to	υ.	Educational programmes have not been proven to reduce the incidence	В
12.	your emergency department with a distal radius fracture.	C.	Most accidents occur at night	С
	Which statement is correct?		The majority occur in pre-school children	D
a.	C-spine injuries are common in the paediatric population and therefore this patient should definitely have a full C-spine X-ray A	e.	These children tend to suffer more severe injuries	Ε
	series	Th	ne risk of early complications in patients with hand infectio	ns
b.	Intubation will significantly increase the appearance of the soft		erhoef H, Marais LC, Ryan PV, Rollinson PD)	
	tissue shadow on the upper part of the C-spine on lateral X-ray	18.	The following are all independent risk factors for developm of early complications in hand infections, except:	ent
C.	In children, the lower C-spine is much more likely to be injured than the upper C-spine	а	Polymicrobial infections	Α
Ч	Soft tissue swelling on lateral C-spine X-ray correlates well with		Human bites	В
u.	bony injury	О. С.	Diabetes mellitus with HBA1C 7.8%	С
e.	Soft tissue swelling on lateral C-spine X-ray cannot be measured	d.	HIV infection with CD4 count 180 cells/mm ³	D
	as a ratio of vertebral body width		Diabetes mellitus with HBA1C 10.1%	E
13.	In this patient, you suspect that the prevertebral soft tissue is swollen by its appearance on the lateral C-spine X-ray.		Regarding the bacteriology of hand infections, which one	e of
	Which of the following measurements would alert you to the		the following statements is correct?	
	possibility of injury and prompt further investigation (e.g. CT scan or MRI)?	a.	Polymicrobial infections are found more frequently than isolated <i>S. aureus</i> infections in HIV-positive patients	A t
a.	The soft tissue in front of the C6 vertebral body is 65% of the width of the C7 vertebral body $$ A $$	b.	Polymicrobial infections are found more frequently than isolated <i>S. aureus</i> infections in diabetic patients	В
b.	The soft tissue in front of C2 is more than 20% of the C3 B		S. epidermidis is the most frequently isolated organism	С
c.	vertebral body The soft tissue in front of the C6 vertebral body is more than C5% of the width of the C7 vertebral body.		Eikenella corrodens is the most frequently isolated organism in HIV-positive patients	D
d.	55% of the width of the C7 vertebral body The soft tissue in front of the C2 vertebral body is 38% of the width of the C7 vertebral body	e.	HIV-positive patients and poorly controlled diabetic patients are more likely to be affected by polymicrobial infections than patients who are HIV negative and non-diabetic	
e.	The soft tissue in front of the C2 vertebral body is more than E 55% of the width of the C7 vertebral body	M	anagement of femur neck fractures in young adults under e age of 60 years (Blake CA, Van Staden GF, Van der Merw	e
14.	You apply the CSPINE rule to interpret her X-ray. This rule	JF	, Matshidza S)	
	has a sensitivity of about 33–45% and a specificity of around 82–93%. This means:	20.	The most important aspect of hip-preserving surgery in you adults under the age of 60 years with femur neck fractures	
	It is a good screening tool		Capsulotomy	Α
b.	It will have a good positive predictive value as C-spine injury has a high prevalence		Surgical timing Open reduction	ВС
C.	It is useful to rule in the chance of cervical spine injury	d.		D
d.	It has a low false negative rate	e.	Choice of internal fixation	Е
	It is useful to rule out the chance of cervical spine injury		Which surgical implant should be avoided in Pauwels typ	
Ep	idemiology of paediatric and adolescent fractures admitted		fractures?	
TO No	a South Āfrican provincial hospital (Strydom S, Hattingh C, jcelwane M, Ngcoya N)		Cannulated screws	Α
	Which of the following is <i>not</i> a risk factor to identify child	b.	Proximal femoral locking plate	В
	abuse?	C.	Dynamic hip screw	С
a.	Unplanned pregnancy A	d.	•	D
b.	Children less than 5 years of age	_e.	Hybrid plate	Е

- Subscribers and other recipients of SAOJ visit our new CPD portal at www.mpconsulting.co.za
 Register with your email address as username and MP number with seven digits as your password and then click on the icon "Journal CPD".
 Scroll down until you get the correct journal. On the right hand side is an option "ACCESS". This will allow you to answer the questions. If you still can not access please send your Name and MP number to cpd@medpharm.co.za in order to gain access to the questions.
 Once you click on this icon, there is an option below the title of the journal: Click to read this issue online
 Once you have completed the answers, go back to the top of the page next to the registration option. There is another icon "Find my CPD certificate". (You will have to answer the two questions regarding your internship and last CPD audit once you have completed as user its property of the page next to the registration option.
- a questionnaire and want to retrieve your certificate).
 If you click on that icon it will open your certificate which you can print or save on your system.
 Please call MPC Helpdesk if you have any questions: 0861 111 335.



Medical Practice Consulting: Client Support Center: +27121117001 Office – Switchboard: +27121117000