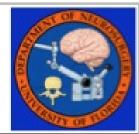
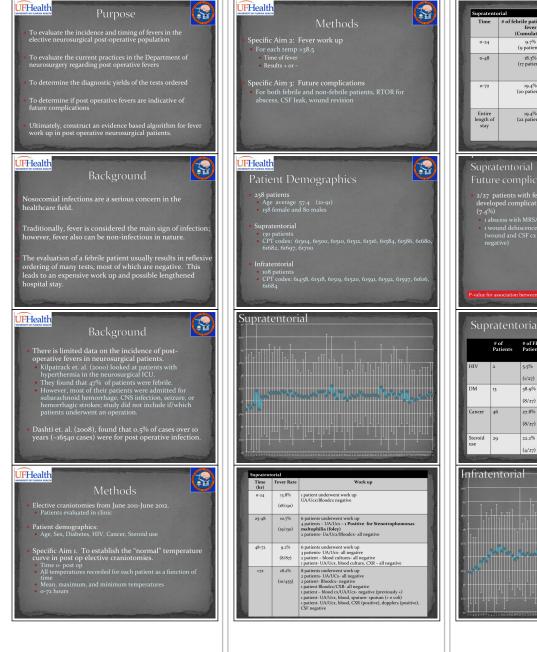
Work Up of Post-operative Fevers in Elective Craniotomies: A Pilot Study

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Supratent Time		rile patients with	Probability of v positive i	work up being
	(fever Cumulative)		
0-24		9.7% (9 patients)	o/18 positive work up in febrile patients	
o-48	18.3% (17 patients)		1/17 positive work up	o in febrile patients
			5.9% CI [0.3%, 30.8%]	
0-72	(19.4% 20 patients)	1/17 positive work up	
			5.9% CI [0.3%, 30.	8%]
Entire length of		19.4% 22 patients)	3/21 positive work u patients	p in febrile
stay			14.3% CI [3.76%, 3	7.4%]
	and the			and the second
(7.4%) • 1 abs • 1 wo (woi	scess wit und deh und and	nplications h MRSA iscence CSF cx	fever develope complications 5 abscess (N GPC, Propic acnes)	s (3.8%) IG, Klebseilla, mibacterium
nega P-value for a	issociation	between fever and co orial- Risl	negative) • 1 CSF leak ((• 1 meningitis viridans) omplications = 0.6 ()	Fisher's exact test)
nega -value for a Supra	issociation		negative) • 1 CSF leak ((• 1 meningitis viridans) omplications = 0.6 ()	CSF negative) (strep Fisher's exact test)
nega -value for a Supra	ative) association	orial- Risl #offebrile	onegative) 1 CSF leak ((1 meningitis viridans) mplications = 0.6 (C factors?	CSF negative) (strep Fisher's exact test) ??? P value
-value for a Supra	atent of atents	orial- Risl ^{# of FEBRILE} Patients 5-5% (1/27)	negative 1 CSF leak ((1 meningitis viridans) stridans) c factors? r of AFEBRILE Patients 13% (v/rog)	CSF negative) (strep Fisher's exact test) ??? P value (Fisher) 0.38
value for a Supra P	atent of atents	orial- Risl [#] of FEBRILE Patients 5-5% (u/27) 38.9%	negative) 1 CSF leak ((1 meningitis viridans) mplications = 0.6 (6 of AFEBRILE Patients 1.3% (r/103) 8%	CSF negative) (strep Fisher's exact test) ??? P value (Fisher)
value for a Supra IV 2 M 12	association atent of atients	orial- Risl ^{# of FEBRILE} Patients 5-5% (1/27)	negative 1 CSF leak ((1 meningitis viridans) stridans) c factors? r of AFEBRILE Patients 13% (v/rog)	CSF negative) (strep Fisher's exact test) ??? P value (Fisher) 0.38
-value for a Supra	association atent of atients	orial- Risl e of FEBRILE Patients 5.5% (1/27) 38.9% (8/27)	negative 1 CSF leak ((1 meningitis viridans) mplications = o.6 (c factors? of of AFEBRILE Patients 1.3% (1/103) 8%	CSF negative) (strep Fisher's exact test) ??? P value (Fisher) 0.38 0.38
nega -value for a Supra IV 2 M 15 ancer 4 teroid 2	ative) atent of atients	orial- Risl Patients 5-5% (1/27) 38-9% (8/27) 27.8%	negative) 1 CSF leak ((1 meningitis viridans) mplications = 0.6 () c factors? o of AFEBRILE Patients 13% (//103) 8% (6/103) 54.7%	CSF negative) (strep Fisher's exact test) ??? P value (Fisher) 0.38 0.38
value for a Supra IV 2 IV 2 IV 4 IV 4 IV 2	ative) atent of atients	orial- Risl eofFEBRILE Patients 5.5% (1/27) 38.9% (8/27) 27.8% (8/27)	negative) 1 CSF leak ((1 meningitis viridans) mplications = o.6 () o of AFEBRILE Patients 13% (v/103) 54.7% (43/103)	CSF negative) (strep Fisher's exact (est) ? P-salue (Fisher) 0.38 0.38 0.38
P-value for a Supra filv 2 DM 15 Cancer 4	ssociation atent of atients b b b b b b b b b b b b b b b b b b b	orial- Risl ad FERRILE Patients 5-5% (1/27) 38.9% (8/27) 27.8% (8/27) 23.3% (4/27)	negative) 1 CSF leak ((1 meningitis viridans) mplications = 0.6 ((constructions) constructions (a) (a) (a) (a) (a) (b) (a) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c	CSF negative) (strep Fisher's exact (est) ? P-salue (Fisher) 0.38 0.38 0.38

22	nfrater	itoria								
	Time	Fever Rate			Work up					
l	0-24	5.6%		1 patient underwent work up: UA/Ucx/CXR/Bloodcx ; all negative		1				
h			No estimate un domunat combine							
	25-48	3% (3/103)		No patients underwent work up						
r	48-72	2 0% (0/57)				1				
						-				
Г	>72	16%		4 patient underwent work up:						
	(4/25)		/25)	UA +, CSF/CSF cx negative UA/Sputum- all negative UA/Ucx/dopplers/CSF/CSFcx/Blood- GPC in blood CXR/CSF/CSFcx- all negative		and the second				
6	-		5.00 T							
	WALKSON O		CHERRY							
	Infrate	entori	al							
			ebrile patients	Probability of work up being positive if						
	(hr			with fever umulative	febrile					
	0-24		5.6%		o/6 positive work up in febrile patients					
				6 patients	0%					
				6.5%	0/7 positive work up in febrile patients					
			7 patients		0%	1				
			_	7.5%	o/8 positive work up in febrile patients	1				
				8 patients	o%	-				
	Entire length of		7.5%		2/8 positive work up in febrile patients					
	sta		8 patients		25.0% CI [4.5%, 64.4%]	-				
	1		CONCEPTION OF							
	Infratentorial:									
	Future complications									
	 8 patients with fev 2 patient with complications 				100 patients without fever 8 patients developed complications	-				

of AFEBRILE Patients

0%

(0/100

(11/100)

11.1%

(11/100)

5.1%

(5/100)

11.1%

P value (Fischer)

1.00

1.00

0.39

of FEBRILE Patients

(o/8)

12.5%

(1/8)

12.5%

(1/8)

12.5%

(1/8)

For both groups, fever in the first 72 hours post op does not appear to be a predictor of future infection Is there a need for any work up in the first 72 hours??
Conclusions and Discussion
 Fever in the first 72 hours post op in the infratentorial subgroup appears to be associated with a higher likelihood of developing a CSF leak. Inflammatory cascade?? Nature of the infratentorial surgery (mastoid air cells)??
 There is a higher likelihood to develop fevers after supratentorial surgery compared to infratentorial sugery Length of surgery Size of incision Length of stay
Health
Future Directions
Temperature Curve Analysis of a larger patient population Urgent and Emergent Spine and Vascular
 Is there an ideal work up for febrile patient if any?
 How does Tmax play into work up? 38.5 versus 39.0, etc.
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Conclusions and Discussion