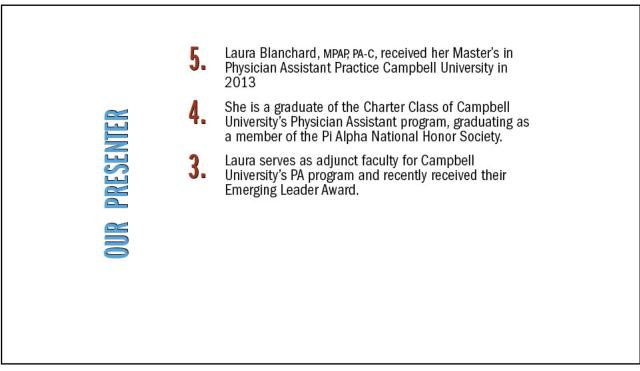


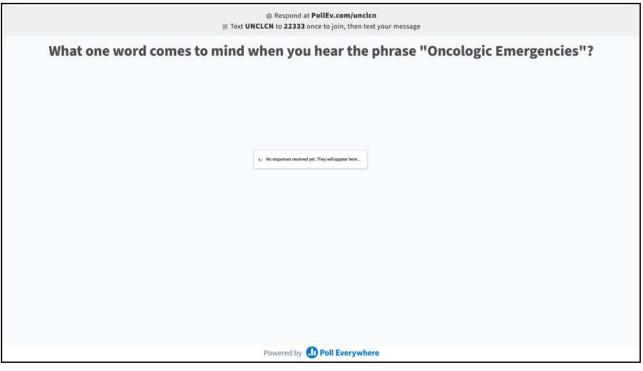
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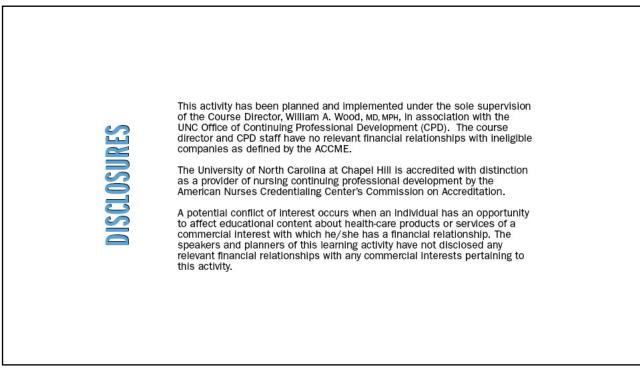


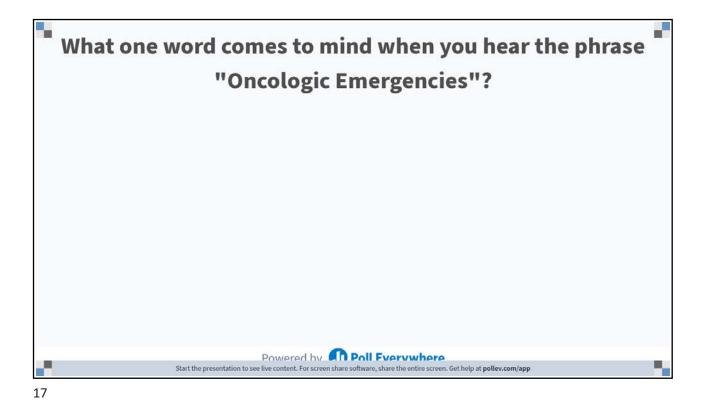
	5.	Laura Blanchard, MPAP, PA-C, received her Master's in Physician Assistant Practice Campbell University in 2013
NTER	4.	She is a graduate of the Charter Class of Campbell University's Physician Assistant program, graduating as a member of the Pi Alpha National Honor Society.
OUR PRESENTER	3.	Laura serves as adjunct faculty for Campbell University's PA program and recently received their Emerging Leader Award.
OUR	2.	Since 2013, she has worked in malignant hematology at UNC Medical Center, where she currently serves as the lead inpatient malignant hematology APP.
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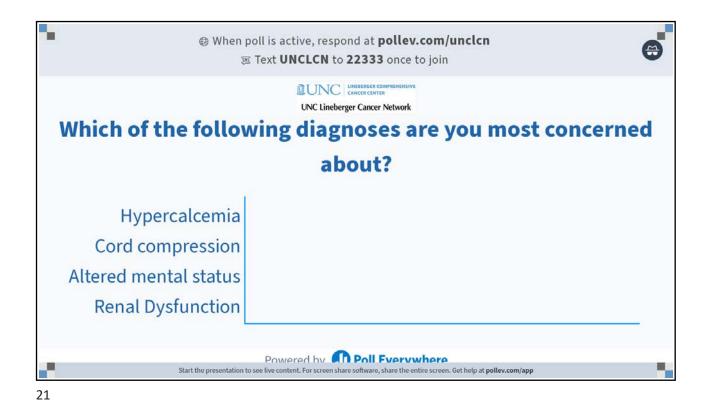


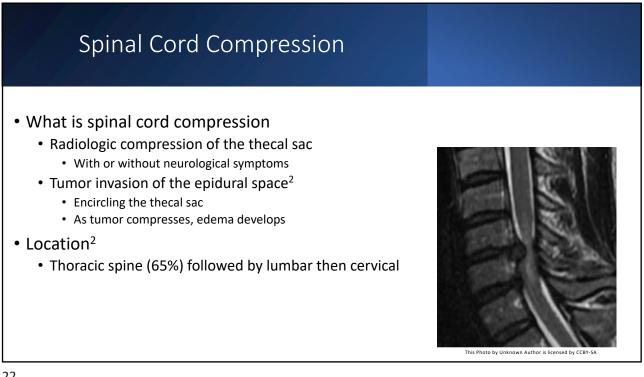
Oncologic Emergencies: A deeper dive --Neutropenic fever, Tumor lysis syndrome and Cord compression

> Laura Blanchard, PA-C Laura.Blanchard@unchealth.unc.edu

Oncologic En	liergencies	
Mechanical	Metabolic	Hematologic
Pulmonary Embolism	Tumor Lysis	Cytopenia
Spinal Cord Compression	Hypercalcemia	Febrile Neutropenia
SVC Syndrome	Hyperuricemia	Hyperviscosity
Small bowel obstruction	SIADH	Hyperleukocytosis
Urinary obstruction	Adrenal insufficiency	Bleeding
CNS tumor	Hypokalemia	Clotting
Carcinomatous meningitis		
Malignant effusion		

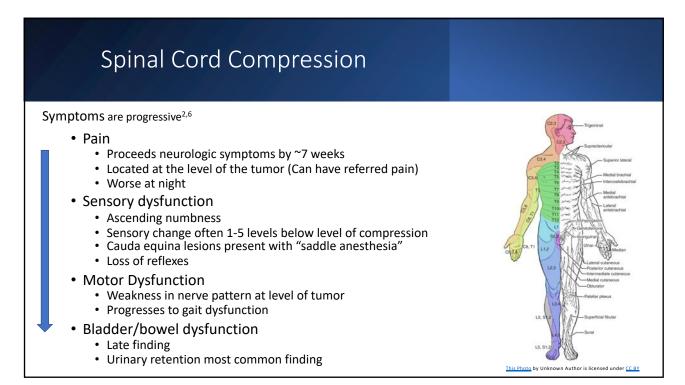
Case 1		
70 y.o male PMHx of CKD, HTN, and IgG-Kappa s uncontrolled back pain, confusion, a day prior and received IVF and Zolec received an increase in pain regimer	moldering Myeloma pre ind weakness. Patient wa dronic acid (Zometa) for e	sents to the ER with as seen in the infusion center 1 elevated Calcium and also
Exam:	Initial Work up:	CHEM:
Paraspinal TTP surrounding L4/	[/] L5 bilaterallv.	Na 132
otherwise no focal neurologica		K 4.2
	l findings and no	
otherwise no focal neurologica	l findings and no	K 4.2
otherwise no focal neurologica	l findings and no	K 4.2 Cl 106
otherwise no focal neurologica	l findings and no	K 4.2 Cl 106 Co2 21.9

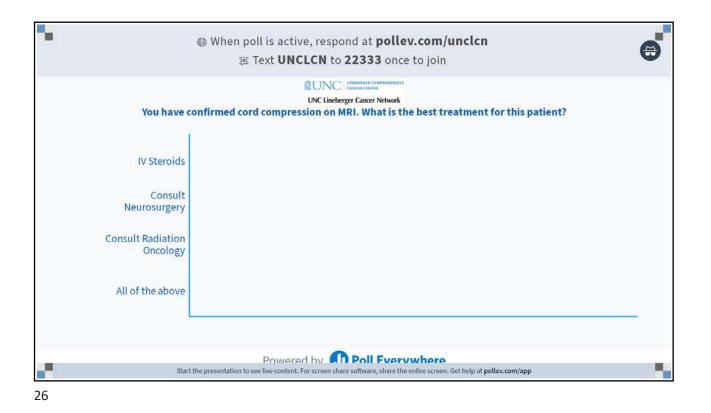




Spinal Cord Compression	
 Most common cancer types¹ Lung (25%) Prostate (16%) Multiple Myeloma (11%) Breast (7%) Children: Sarcomas, Neuroblastoma, and Hodgkin 	Lymphoma (Children)
 Arterial seeding of bone ~85-90% of cases by metastatic spread Diagnostic MRI⁶ Early detection is KEY 	A LINE LAND BY LINE ROOM Author is licensed under

	 When poll is active, respond at pollev.com/unclcn Text UNCLCN to 22333 once to join
You are waiting on MRI to confirm y	DUNC Lineberger Cancer Network UNC Lineberger Cancer Network our suspicion of Spinal Cord compression. Which of the following is the typical progression of symptoms for patients with cord compression?
Motor, Sensory, Bowel/bladder, Pai Pain, Sensory, Motor, Bowel/bladde Sensory, Motor, Pain, Bowel/bladde Pain, Bowel/bladder, Sensory, Moto	er a
_	Powered by Content For screen share software, share the entire screen. Get help at polley.com/app





Saspen DECADRON

3.3mg/1m

1ml×10Amp

Aspen Japan K.K.

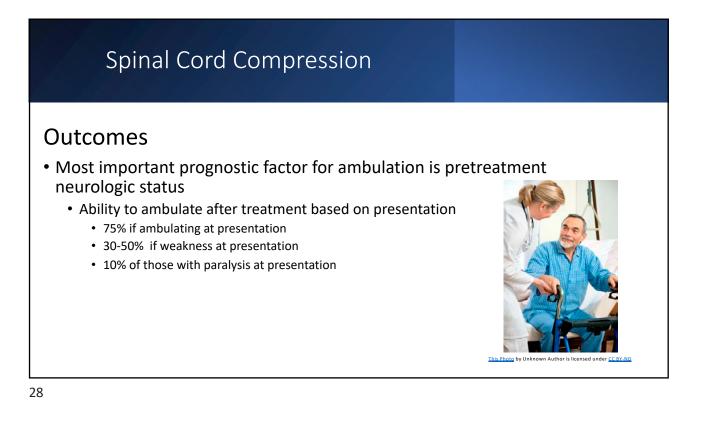
Spinal Cord Compression

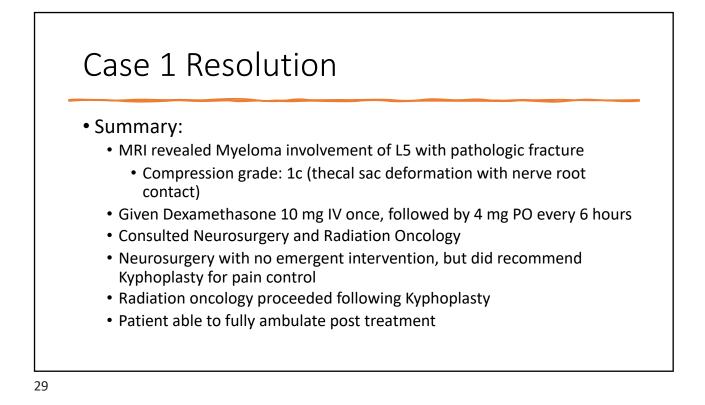
Treatment

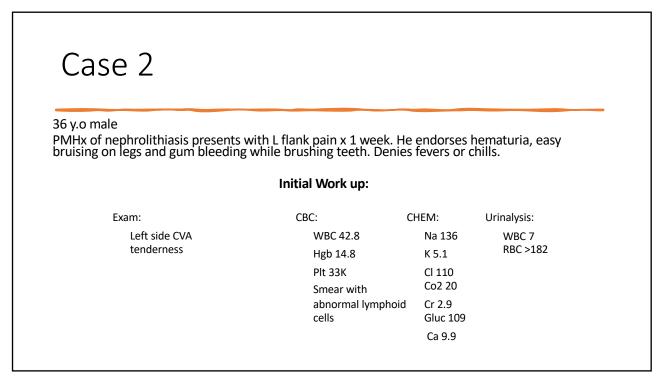
- High dose steroids immediately^{1,6}
 - Used as a bridge to definitive therapy
 - Decreases associated edema
 - Increases probability of ambulation post treatment
- Surgical Consult ⁵
 - Decompression
 - Unstable spine (SINS score >7 = surgical consult)
 - Interventional radiology (Kyphoplasty)
- Radiation Consult¹
 - Radiation sensitive tumors

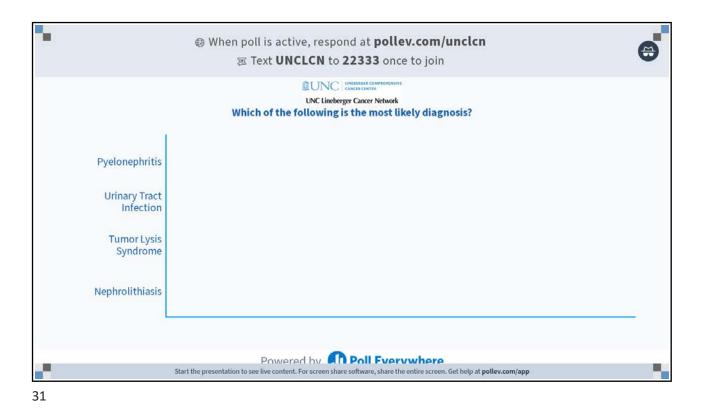
*Surgery + Radiation have better outcomes for post treatment ambulation than radiation alone ⁵

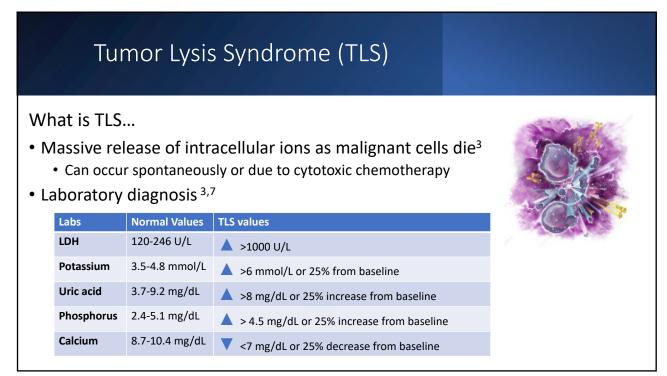


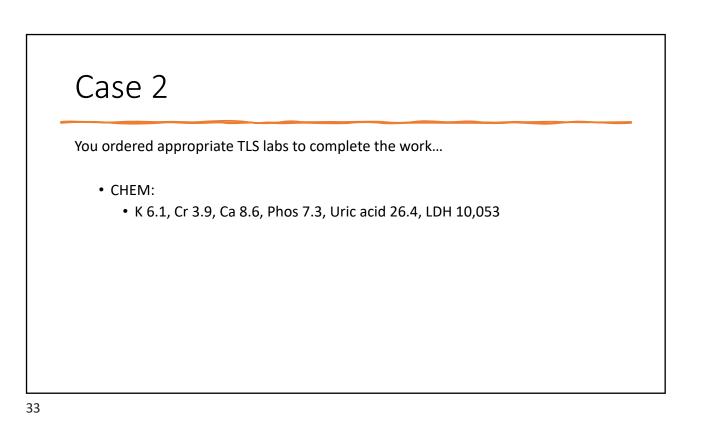


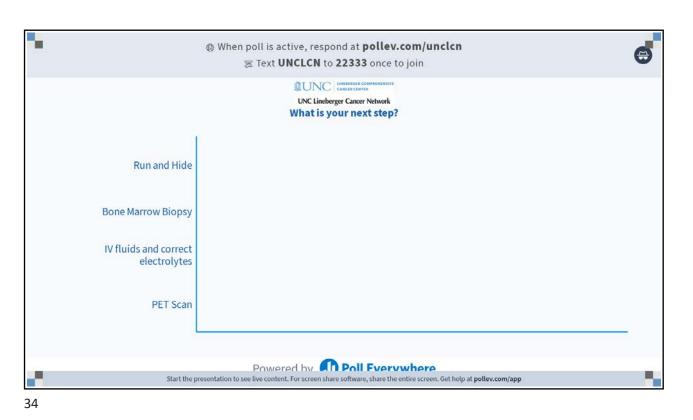












For Educational Use Only

Tumor Lysis Syndrome (TLS)

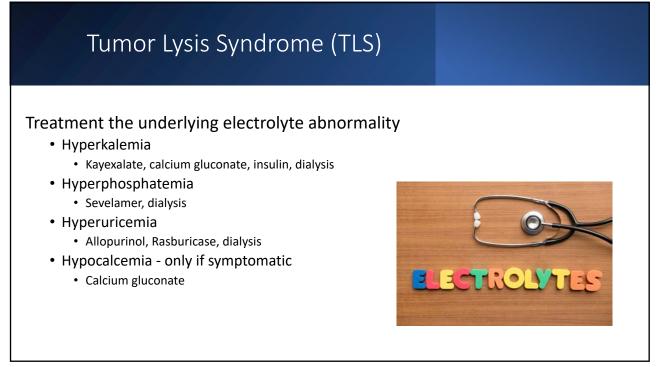
At risk populations:^{2,7}

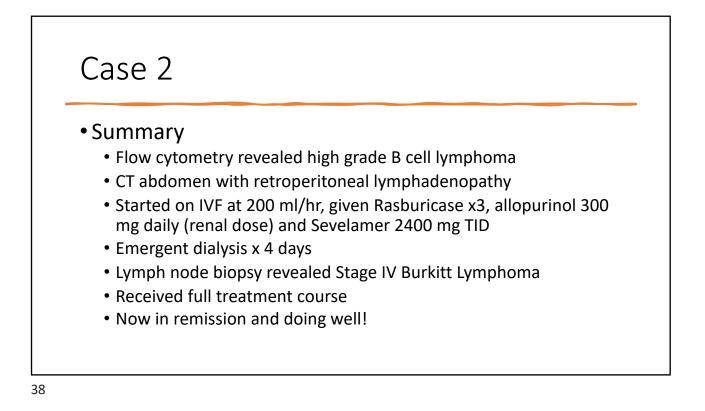
- ALL with WBC >100K
- AML with WBC >50K
- High tumor burden (Burkitt or high grade lymphomas)
- High proliferative diseases (LDH >1000)
- Less frequent in solid tumors (metastatic tumors)
- Pre-existing renal disease or dehydration
- Monitoring
 - Q6 hour TLS labs in high risk patients
 - Solid tumors consider baseline TLS labs ³
 - Prior to treatment in metastatic disease



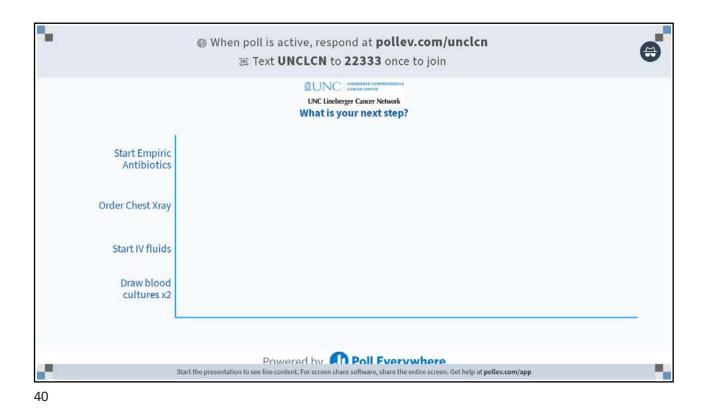
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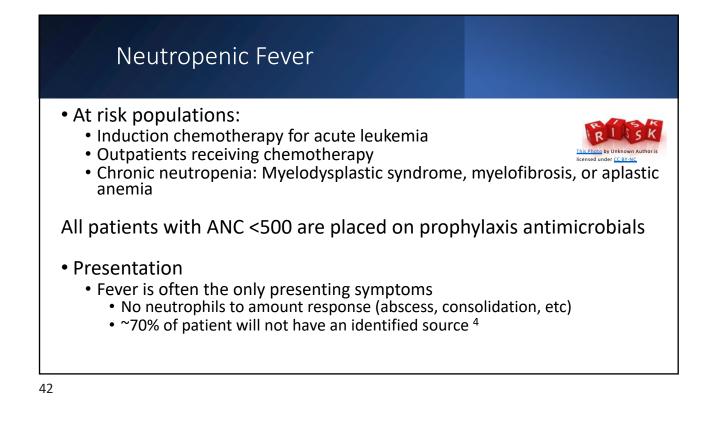
Case 3		
69 y.o male PMHx of COPD, atrial fibrillation, T2 presents to the ER with cough, SOB found to have a temperature of 39.	, progressive AMS. Or	citidine/Venetoclax who nce in the ER, patient
	nitial Work up:	CHEM:
Exam:	65.6	Na 145
	CBC:	К 3.7
Irregular rate and rhythm	WBC 1.5	К 3.7 Cl 104
	WBC 1.5 ANC 0.1	
Irregular rate and rhythm	WBC 1.5 ANC 0.1 Hgb 8.9	CI 104
Irregular rate and rhythm	WBC 1.5 ANC 0.1	Cl 104 Co2 34

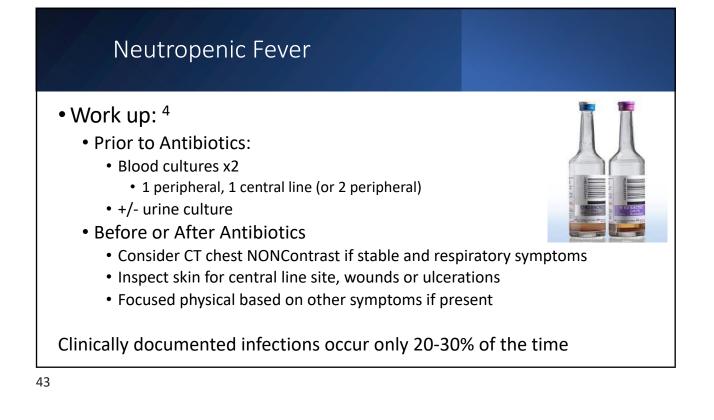


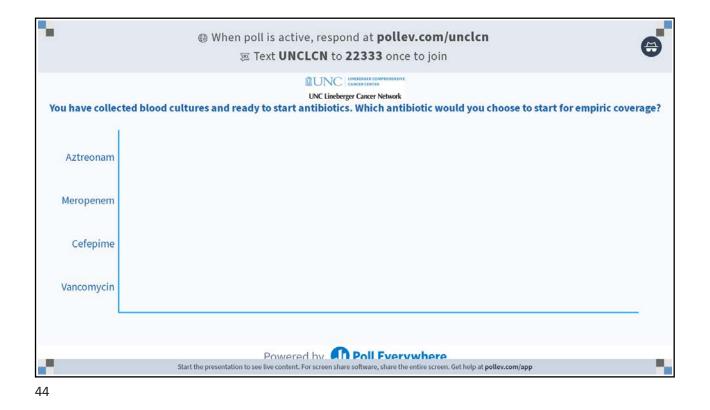
Neutropenic Fever Definition: 8 >38.3 C once or >38.0 C sustained over 1 hour • ANC < 500 or within next 48 hours Risk factors⁸ depth and duration of neutropenia • Sepsis/death can develop within first 4 hours of fever • Source: • Bacterial, viral or fungal from any location • Most common sites: GI tract, lungs, skin Do NOT forget to examine

• Sinuses, perianal (avoid DRE), mucosal membranes









Neutropenic Fever	
 Treatment^{4,8} Initiate empiric antibiotics immediately – wit Cefepime 2g every 8 hours Zosyn is an alternative +/- Vancomycin if considered for MRSA line/skin/mucositis, hx of MRSA or hemodynamic 	
 Special considerations: VRE – Daptomycin ESBLs – Meropenem Penicillin allergy – Aztreonam + Vancomycin 	<section-header> Versetware Versetware Configetion Versetware Dor Injection USA Darams/vial Versetware Weiter training Versetware Dortzer contraining Versetware</section-header>

