### Lymphoma Updates From ASH 2018

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### **Objectives**

- Discuss results of the ASH 2018 Lymphoma abstracts
- Role of brentuximab vedotin in patients with CD30+ Peripheral T Cell Lymphoma
- Recognize that a short course of RCHOP chemotherapy alone may be effective in treatment of young patients with low risk DLBCL.
- Recognize that the optimal treatment for ABC/non-GCB type DLBCL is still R-CHOP, but the addition of ibrutinib to RCHOP may benefit some younger patients
- Recognize the increasing role of check point inhibitors in Hodgkin lymphoma



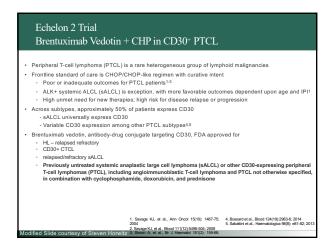
### Three interesting RCT

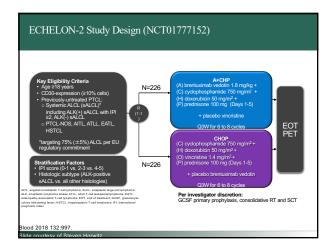
- Echelon 2 Trial
  - Phase III of Brentuximab vedotin + CHP versus Placebo + CHOP in CD30+ PTCL
- Flyer Trial
  - 6 vs. 4 Cycles RCHOP-21 in Young Patients with Low Risk DLBCL
- Ibrutinib + R-CHOP vs. Placebo + R-CHOP in non-GCB DLBCL

### One phase I/II Trial

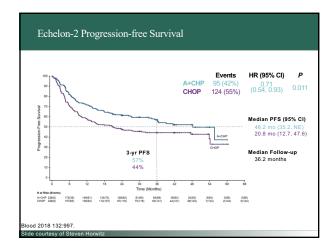
Ipilimumab, nivolumab and brentuximab vedotin in rel/ref HL

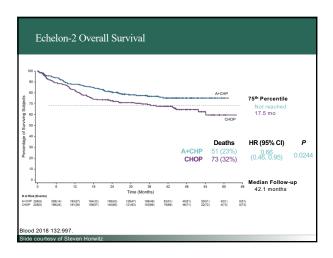
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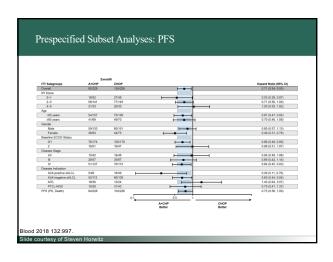


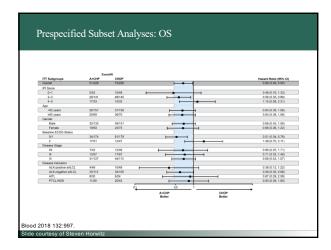


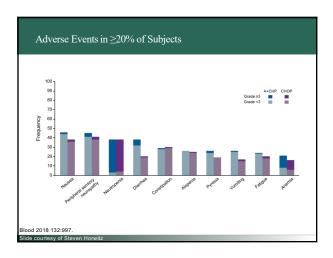
	A+CHP (N=226)	CHOP (N=226)	-	A+CHP (N=226)	CHOF (N=226
Male, n (%)	133 (59)	151 (67)	Disease diagnosis	, n (%)	
Age in years,	58 (18-85)	58 (18-83)	sALCL	162 (72)	154 (68
median (range)	00 (10 00)		ALK+	49 (22)	49 (22
IPI score, n (%)			ALK-	113 (50)	105 (46
0-1	53 (23)	48 (21)	PTCL-NOS	29 (13)	43 (19
2-3	140 (62)	144 (64)	AITL	30 (13)	24 (1
4-5	33 (15)	34 (15)	ATLL	4 (2)	3 (*
Stage III/IV, n (%)	184 (81)	180 (80)	EATL	1 (0)	2 (*

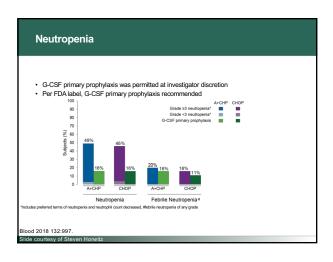




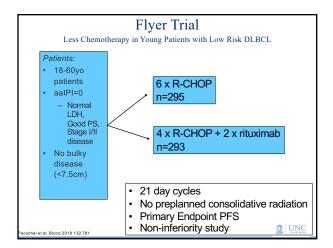


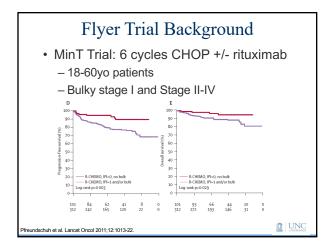


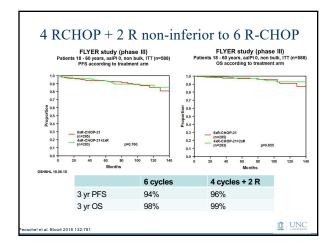




# Summary and Conclusions • ECHELON-2 first prospective trial in PTCL to show OS benefit over CHOP • A+CHP provided clinically meaningful improvement in PFS and OS versus CHOP • 29% reduction in the risk of a progression event - 3-yr PFS: A+CHP 57% versus CHOP 44% • 34% reduction in the risk of death • A+CHP has a comparable safety profile to CHOP • FDA approved brentuximab vedotin in combination with CHP for adults with previously-untreated sALCL or other CD30-expressing PTCL, including AITL and PTCL-NOS







## Conclusion of Flyer

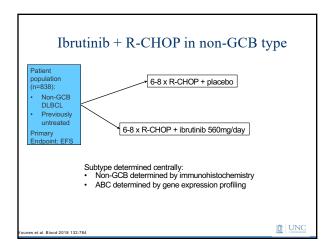
- In young patients with non-bulky limited stage disease, normal LDH and good performance status:
  - 4 cycles RCHOP + 2 cycles R have excellent long term survival and low chance of relapse
  - It does not address the question of radiation or not
  - Late relapses are occurring in both arms

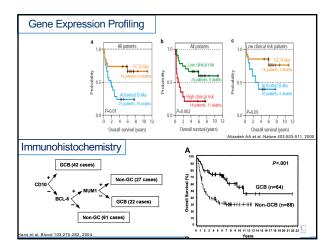


# Current NCCN Recommendations for Stage I/II DLBCL

- R-CHOP-14 x 4-6 cycles +/- ISRT
- R-CHOP-21 x 6 cycles +/- ISRT
- R-CHOP x 3 + ISRT
  - This is a category one recommendation

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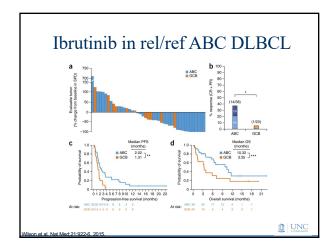


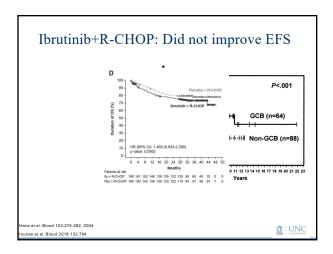


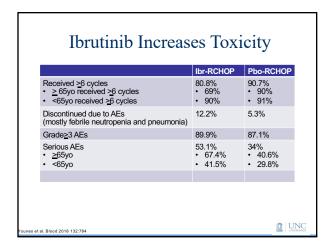
### Ibrutinib in ABC/non-GCB

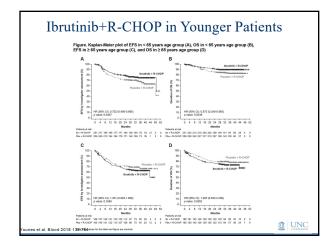
- ABC DLBCL has mutations that lead to chronic active B cell receptor (BCR) signaling
  - Bruton's tyrosine kinase links BCR activity to NF-KB activity
  - Ibrutinib is a BTK inhibitor

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### Conclusions Ibrutinib + R-CHOP

- In patients with non-GCB DLBCL, 1<sup>st</sup> line ibrutinib + R-CHOP did not prolong EFS in the ITT population
  - May improve outcomes in patients <65 with ABC/non-GCB type DLBCL but a prospective trial is needed
  - Even the older pts, on either arm, did much better than historical expectations



## Triple drug therapy for rel/ref HL

 Phase I/2 trial ipilimumab, nivolumab and brentuximab vedotin

Nivo 3mg/kg every 21 days x 32 cycle + BV (1.2mg/kg or 1.8mg/kg) every 21 days x 16 cycle + Ipi 1mg/kg every 12 weeks

3+3 design for the two BV dose levels (7 and 6 patients) 9 patient dose expansion at the 1.8mg/kg dose

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### **Patients**

- n=22
- Rel/ref HL
- Median of 2 prior therapies (range, 1-5)
- 9 with prior SCT
- 1 with prior BV

Diefenhach et al. Blood 2018:132:679

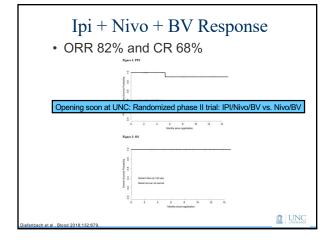
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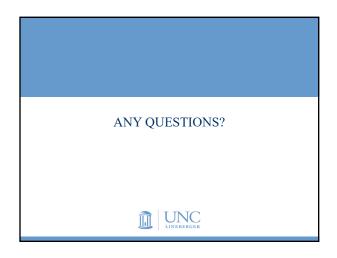
## **Toxicity**

- 3 DLTs:
  - Grade 3 diabetic ketoacidosis
  - Grade 3 AST elevation
  - Grade 4 Steven Johnson syndrome with rash and GVHD in a post Allo-SCT patient
- Significant Grade 3 AEs: rash, colitis, gastritis, pancreatitis, arthritis

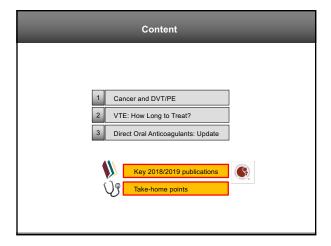
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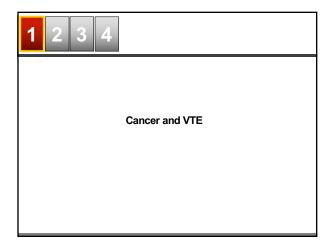
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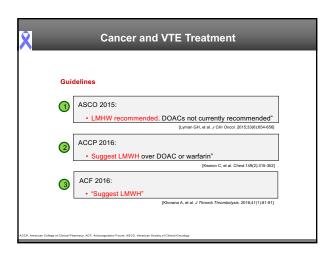


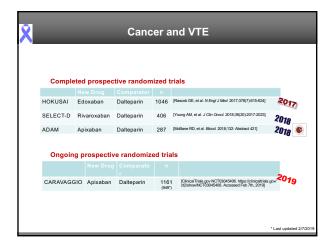


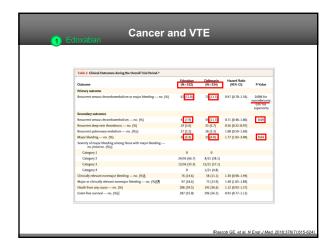


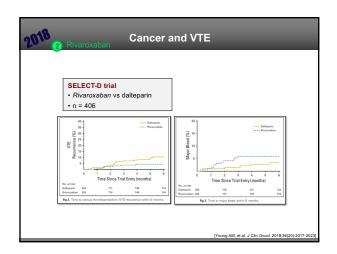


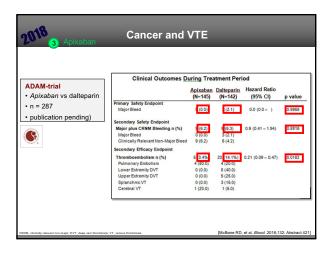


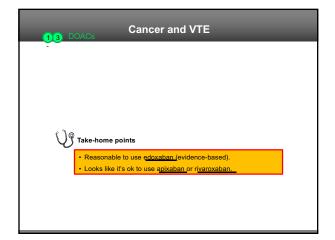


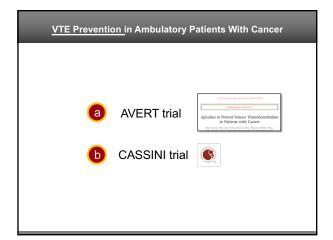


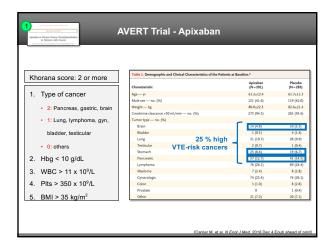


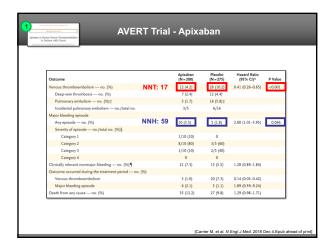


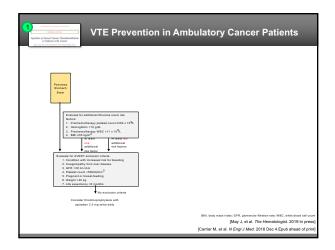


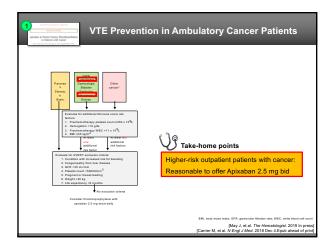


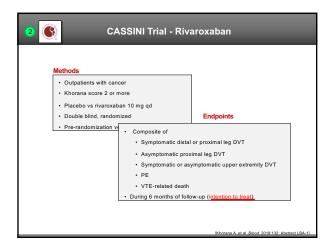


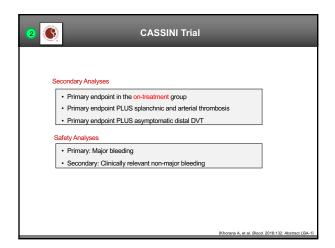


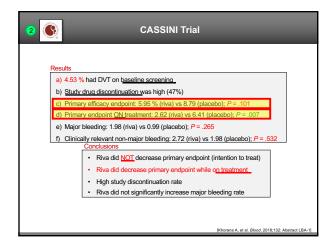


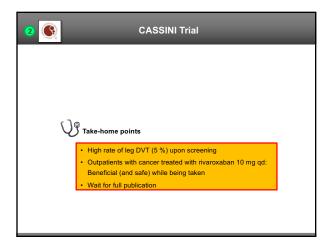


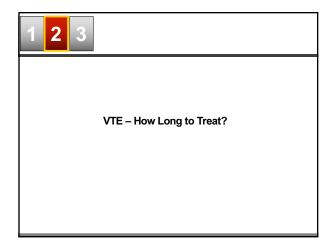


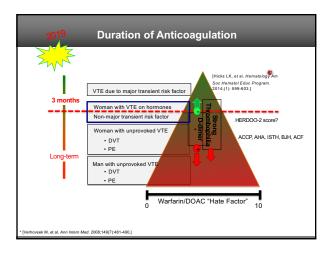


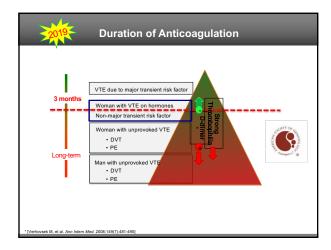


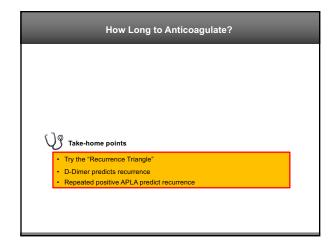


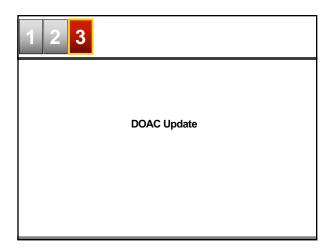


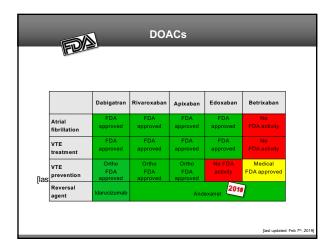


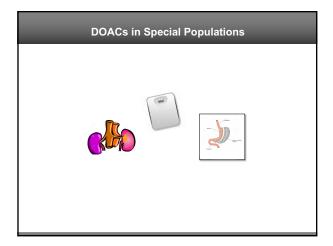


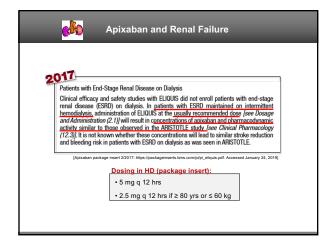


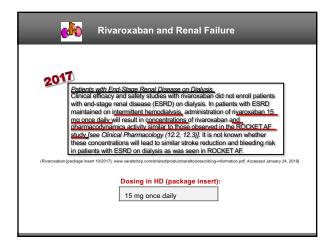


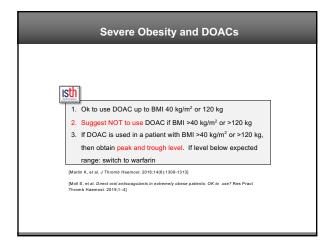


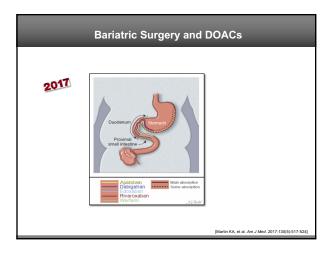


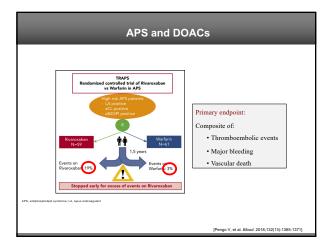












DOACs and Special Populations				
Take-home points				
Renal impairment/ hemodialvsis; May be apixaban, may be rivaroxaban;				
but: Be careful! Dosing?  • <u>Severe obesity (BMI &gt;40 kg/m²)</u> : Suggest warfarin; or DOAC with trough level testing.				
Bariatric surgery; Suggest warfarin; or DOAC with (repeated) level testing.     Antiphospholipid Syndrome; Triple positive—cave DOACs				
<u>Cancer</u> and VTE: Edoxaban good choice. Others: probably, too.				
Martin K, et al. J Thromb Haemost. 2016;14(8):1308-1313] Mol S, et al. Direct oral anticoagulates in extremely obser patients: OK to use? Res Pract Thromb Haemost. 2019;1-4] Martin KA, et al. Am J Med. 2017;130(5):517-524]				

# I how to Approach the Patient with Venous Thrombools 28 Pactical Chinal Points 28 Pactical Chinal Points 58 Pactical Points 59 Pactical Points 59 Pactical Points 50 Pacti

Comments?
Questions?

