

WELCOMING REMARKS SPOTLIGHT ON AGGRESSIVE NON-HODGKIN LYMPHOMAS



Lizette Figueroa-Rivera, MA Sr. Director, Education & Support The Leukemia & Lymphoma Society



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SPOTLIGHT ON AGGRESSIVE NON-HODGKIN LYMPHOM/



Stephanie Chuang Diffuse Large B-cell Lymphoma Survivor Journalist Founder, The Patient Story



thepatientstory.com



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DISCLOSURES SPOTLIGHT ON AGGRESSIVE NON-HODGKIN LYMPHOMAS



Dr. James Westin

Consultant/Honoraria:

Abbvie, ADC Therapeutics, AstraZeneca, BMS, Genentech, Kite/Gilead, Morphosys/Incyte, Kymera, MonteRosa, Novartis, Nurix





MDAnderson Cancer Center

Making Cancer History®

Spotlight on Aggressive Non-Hodgkin Lymphomas

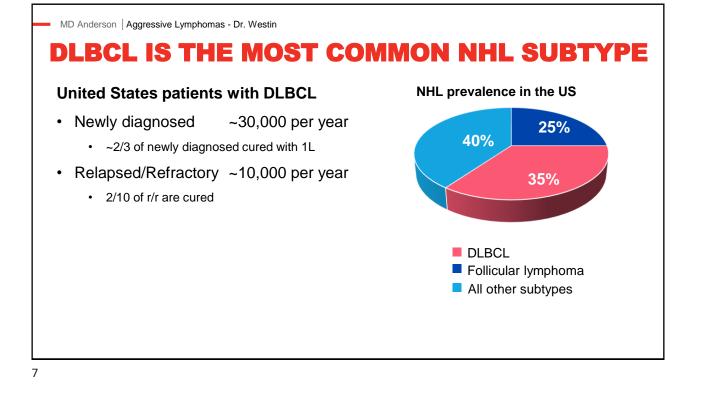
The Leukemia & Lymphoma Society

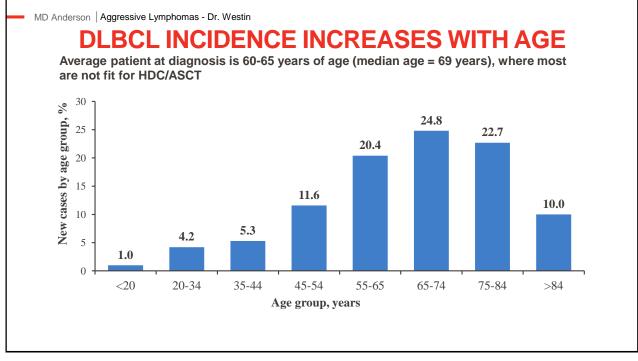
Jason Westin MD MS FACP Director, Lymphoma Clinical Research Section Chief, Aggressive Lymphoma MD Anderson Cancer Center

MD Anderson Aggressive Lymphomas - Dr. Westin

Aggressive Lymphomas: Agenda

- What is Diffuse Large B cell Lymphoma?
- Signs and Symptoms
- Current Treatment Options
- New Important Treatment Advances
- Burkitt Lymphoma
- What do I need to remember?





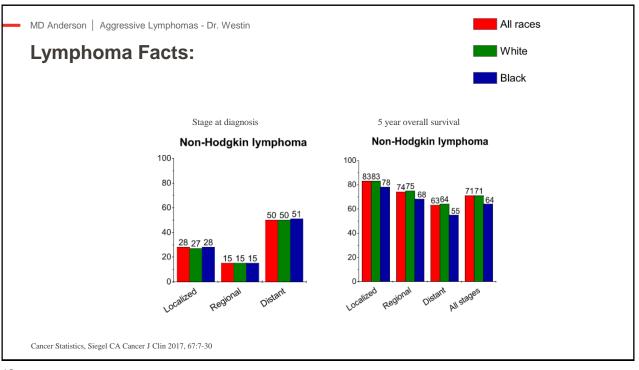
| | | | Males | Females | | |
|--|---------|------|-------|-----------------------|---------|------|
| Prostate | 161,360 | 19% | | Breast | 252,710 | 30% |
| Lung & bronchus | 116,990 | 14% | 57 | Lung & bronchus | 105,510 | 12% |
| Colon & rectum | 71,420 | 9% | | Colon & rectum | 64,010 | 8% |
| Urinary bladder | 60,490 | 7% | | Uterine corpus | 61,380 | 7% |
| Melanoma of the skin | 52,170 | 6% | | Thyroid | 42,470 | 5% |
| Kidney & renal pelvis | 40,610 | 5% | | Melanoma of the skin | 34,940 | 4% |
| Non-Hodgkin lymphoma | 40,080 | 5% | | Non-Hodgkin lymphoma | 32,160 | 4% |
| Leukemia | 36,290 | 4% | | Leukemia | 25,840 | 3% |
| Oral cavity & pharynx | 35,720 | 4% | | Pancreas | 25,700 | 3% |
| Liver & intrahepatic bile duct | 29,200 | 3% | | Kidney & renal pelvis | 23,380 | 3% |
| All Sites | 836,150 | 100% | | All Sites | 852,630 | 100% |
| stics, Siegel CA Cancer J Clin 2017, 67: | | | | | | |

| Estimated Deaths | | | | | | | |
|--------------------------------|---------|------|-------|--------|--------------------------------|---------|------|
| | | | Males | Female | IS | | |
| Lung & bronchus | 84,590 | 27% | | | Lung & bronchus | 71,280 | 25% |
| Colon & rectum | 27,150 | 9% | | | Breast | 40,610 | 14% |
| Prostate | 26,730 | 8% | | T | Colon & rectum | 23,110 | 8% |
| Pancreas | 22,300 | 7% | | | Pancreas | 20,790 | 7% |
| Liver & intrahepatic bile duct | 19,610 | 6% | | | Ovary | 14,080 | 5% |
| Leukemia | 14,300 | 4% | | | Uterine corpus | 10,920 | 4% |
| Esophagus | 12,720 | 4% | | | Leukemia | 10,200 | 4% |
| Urinary bladder | 12,240 | 4% | | | Liver & intrahepatic bile duct | 9,310 | 3% |
| Non-Hodgkin lymphoma | 11,450 | 4% | | | Non-Hodgkin lymphoma | 8,690 | 3% |
| Brain & other nervous system | 9,620 | 3% | | | Brain & other nervous system | 7,080 | 3% |
| All Sites | 318,420 | 100% | | | All Sites | 282,500 | 100% |

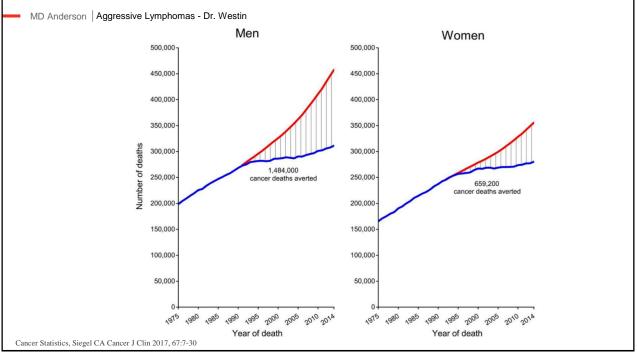
Cancer Statistics, Siegel CA Cancer J Clin 2017, 67:7-30

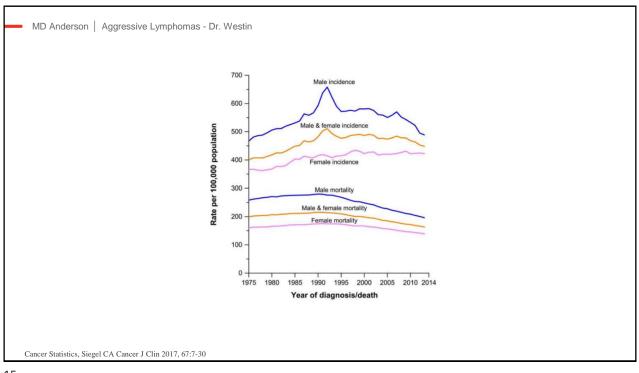
| Estimated New Cance | er Cases and Death | is by Sex, Uni | ted States, 20 | 17* | | |
|---|---|---|---|---|---|--|
| | EST | IMATED NEW CASI | ES | E | STIMATED DEATHS | |
| | BOTH SEXES | MALE | FEMALE | BOTH SEXES | MALE | FEMALE |
| Lymphoma Hodgkin lymphoma Non-Hodgkin lymphoma Myeloma | 80,500 8,260 72,240 30,280 | 44,730 4,650 40,080 17,490 | 35,770 3,610 32,160 12,790 | 21,210 1,070 20,140 12,590 | 12,080 630 11,450 6,660 | 9,130 440 8,690 5,930 |
| | | | | | | |
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| | | acts: | | | | |
|-------------------------------------|----------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|--------------------------------|
| | | | | | | |
| TABLE 8. Probability (%) | of Develop | ing Invasive Can | cer Within Select | ed Age Intervals | by Sex, United St | ates, 2011 to |
| 2013* | | | | | | |
| | | BIRTH TO 49 | 50 TO 59 | 60 TO 69 | ≥70 | BIRTH TO DEATH |
| All sites† | Male | 3.4 (1 in 30) | 6.3 (1 in 16) | 14.0 (1 in 7) | 33.3 (1 in 3) | 40.8 (1 in 2) |
| | Female | 5.4 (1 in 18) | 6.0 (1 in 17) | 10.0 (1 in 10) | 25.9 (1 in 4) | 37.5 (1 in 3) |
| Breast | Female | 1.9 (1 in 52) | 2.3 (1 in 44) | 3.5 (1 in 29) | 6.8 (1 in 15) | 12.4 (1 in 8) |
| Colorectum | Male | 0.3 (1 in 294) | 0.7 (1 in 149) | 1.2 (1 in 84) | 3.5 (1 in 28) | 4.6 (1 in 22) |
| | Female | 0.3 (1 in 318) | 0.5 (1 in 198) | 0.8 (1 in 120) | 3.2 (1 in 31) | 4.2 (1 in 24) |
| Kidney & renal pelvis | Male | 0.2 (1 in 457) | 0.3 (1 in 289) | 0.6 (1 in 157) | 1.3 (1 in 75) | 2.1 (1 in 48) |
| Lauda and a | Female | 0.1 (1 in 729) | 0.2 (1 in 582) | 0.3 (1 in 315) | 0.7 (1 in 135) | 1.2 (1 in 83) |
| Leukemia | Male Female | 0.2 (1 in 410) 0.2 (1 in 509) | 0.2 (1 in 574) 0.1 (1 in 901) | 0.6 (1 in 259) 0.4 (1 in 447) | 1.4 (1 in 72) 0.9 (1 in 113) | 1.8 (1 in 57) 1.2 (1 in 81) |
| Lung & bronchus | Male | 0.2 (1 in 643) | 0.7 (1 in 149) | 1.9 (1 in 53) | 6.2 (1 in 16) | 7.0 (1 in 14) |
| Lung & bronenus | Female | 0.2 (1 in 598) | 0.6 (1 in 178) | 1.5 (1 in 68) | 4.8 (1 in 21) | 6.0 (1 in 17) |
| Melanoma of the skin‡ | Male | 0.5 (1 in 220) | 0.5 (1 in 198) | 0.9 (1 in 111) | 2.5 (1 in 40) | 3.5 (1 in 28) |
| and the design of the second second | Female | 0.0 (1 in 155) | 0.4 (1 in 273) | 0.5 (1 in 212) | 1.0 (1 in 97) | 2.3 (1 in 44) |
| Non-Hodgkin lymphoma | Male | 0.3 (1 in 385) | 0.3 (1 in 353) | 0.4 (1 in 175) | 1.8 (1 in 55) | 2.4 (1 in 42) |
| Ducatata | Female | 0.2 (1 in 547) | 0.2 (1 in 483) | 0.2 (1 in 245) | 1.3 (1 in 74) | 1.9 (1 in 54) |
| Thyroid | Male | 0.2 (1 in 533) | 0.1 (1 in 799) | 0.2 (1 in 620) | 0.2 (1 in 429) | 0.6 (1 in 163) |
| ingroid | Female | 0.8 (1 in 127) | 0.4 (1 in 275) | 0.3 (1 in 292) | 0.4 (1 in 258) | 1.8 (1 in 57) |
| Uterine cervix | Female | 0.3 (1 in 371) | 0.1 (1 in 868) | 0.1 (1 in 899) | 0.2 (1 in 594) | 0.6 (1 in 161) |
| Uterine corpus | Female | 0.3 (1 in 352) | 0.6 (1 in 169) | 1.0 (1 in 105) | 1.3 (1 in 76) | 2.8 (1 in 36) |

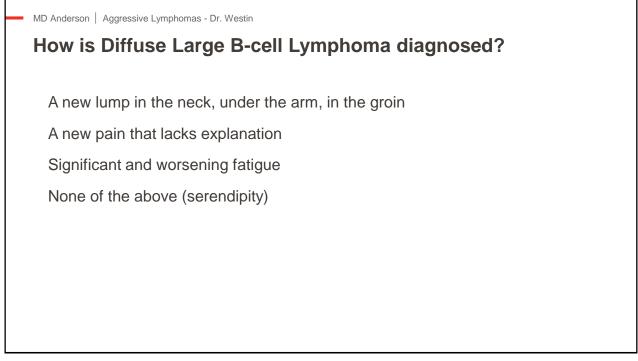




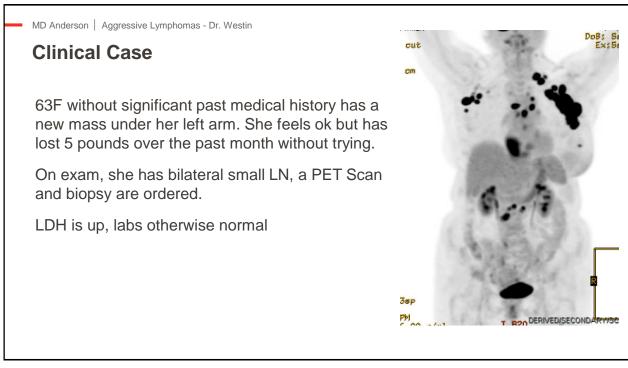


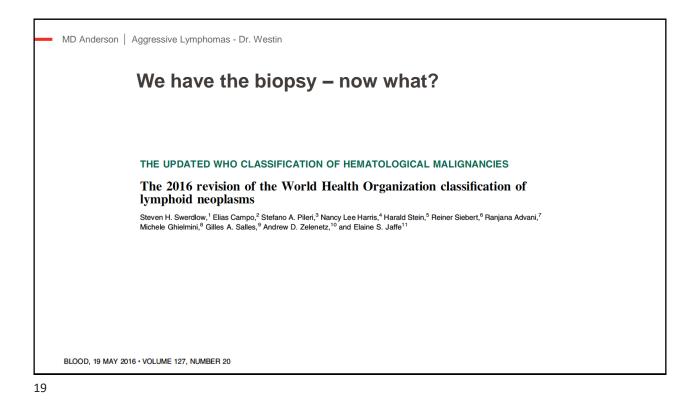






MD Anderson | Aggressive Lymphomas - Dr. Westin
How is Diffuse Large B-cell Lymphoma diagnosed?
A biopsy is required for diagnosis
Radiology reports may say "suspicious for lymphoma"
Not good enough
Usually a core needle or surgical biopsy is required
Fine needle aspiration gives a smear of cells – not good enough for subtyping lymphoma



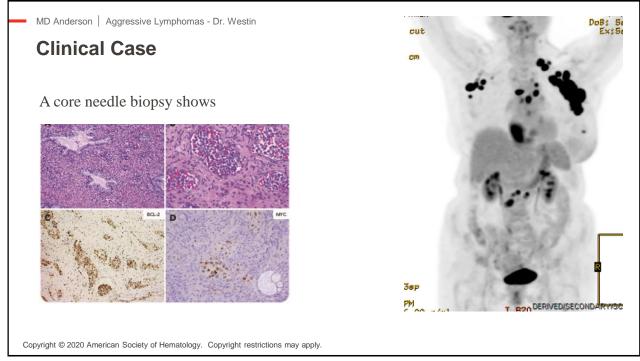


How do we classify Lymphomas?

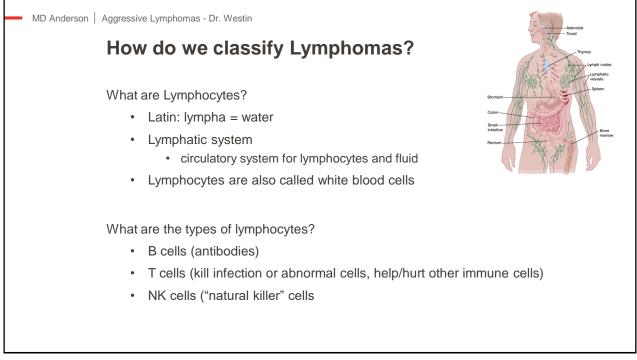
- 1. The type of lymphocyte the lymphoma started from
- 2. How the lymphoma looks under the microscope
- 3. The presence of genetic and protein changes of the lymphoma

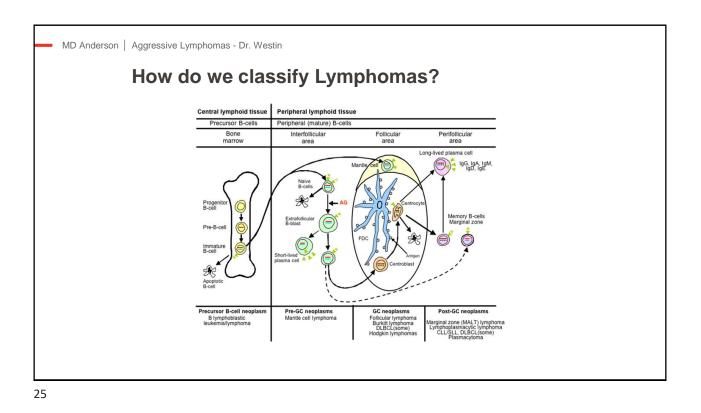
MD Anderson Aggressive Lymphomas - Dr. Westin **DLBCL Diagnosis** Lymph Node core or excisional biopsy (NOT FNA) Immunohistochemistry for B-cell markers • Cell of Origin (WHO recommends) • MYC and BCL protein expression • CD19 is usually assessed FISH • MYC followed by BCL2 and BCL6 Bone Marrow biopsy • Sometimes not done if PET – but controversy

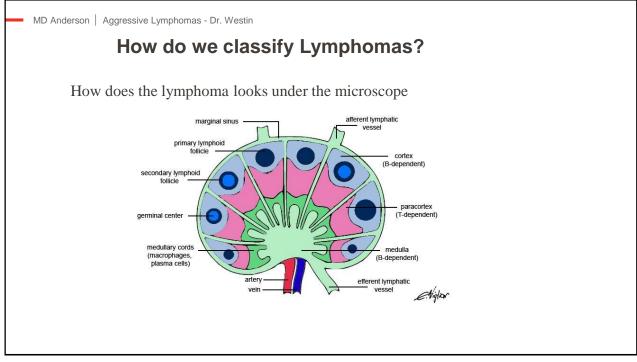
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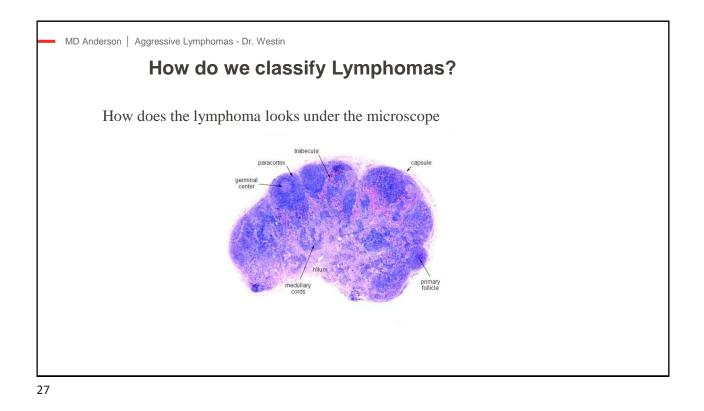


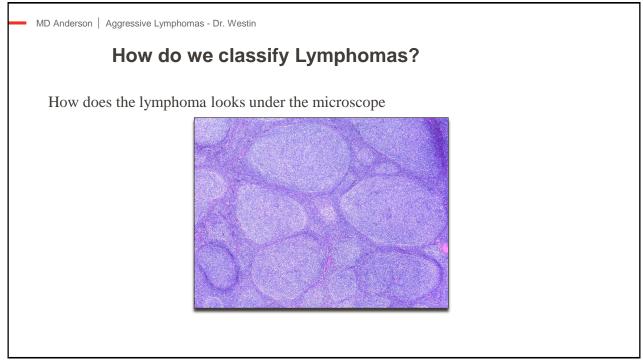
| | Table 1. 2016 WHO classification of mature lymphoid, histiocytic, and dendritic neoplasms | Table 1. (continued) |
|----------|--|---|
| | | Monomorphic epitheliotropic intestinal T-cell lymphoma* |
| Anderson | Mature B-cell neoplasms | Indolent T-cell lymphoproliferative disorder of the GI tracf |
| Anderson | Chronic lymphocytic leukemia/small lymphocytic lymphoma Monoclonal B-cell lymphocytosis" | Hepatospienic T-cell lymphoma |
| | B-cell prolymphocytic leukemia | Subcutaneous panniculitis-like T-cell lymphoma |
| | | Mycosis fungoides |
| | Splenic marginal zone lymphoma Hairy cell leukemia | Sézary syndrome |
| | Spleric B-cell lymphoma/leukemia, unclassifiable | Primary outaneous CD30° T-cell lymphoproliferative disorders |
| | | Lymphomatoid papulosis |
| | Splenic diffuse red pulp small B-cell lymphoma | Primary cutaneous anaplastic large cell lymphoma |
| | Hairy cell kukemia-variant Lymphoplasmacytic lymphoma | Ptimary cutaneous yň T-cell lymphoma |
| | Lymphopasmacytic lymphoma Waldenström macroglobulinemia | Primary cutaneous CD8" aggressive epidemotropic cytotoxic T-cell §mphoma |
| | Monoclonal gammopathy of undetermined significance (MGUS), IgM* | Primary cutaneous acral CD8* T-cell lymphoma* |
| | whorocional gammopathy of undetermined significance (MGUS), IgM* | Primary cutaneous CD4" small/medium T-cell lymphoproliferative disorder* |
| | y heavy-chain disease | Peripheral T-cell lymphoma, NOS |
| | e heavy-chain disease | Angioimmunoblastic T-cell lymphoma |
| | heavy-chain disease Monoclonal gammopathy of undetermined significance (MGUS), IgG/A* | Folloular T-cell lymphoma* |
| | | Nodal peripheral T-cell lymphoma with TPH phenotype* |
| | Plasma cell myoloma | Anaplastic large-cell lymphoma, ALK* |
| | Solitary plasmacytoma of bone | Anaplastic large-cell lymphome, ALK** |
| | Extraosseous plasmacytoma | Breast implant-associated anaplastic large-cell lymphomat |
| | Monoclonal Immunoglobulin deposition diseases* | noogxin iymphoma |
| | Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue | Nodular lymphocyte predominant Hodgkin lymphoma |
| | (MALT lymphoma) | Classical Hodgkin lymphoma |
| | Nodal marginal zone lymphoma | Nodular sclerosis classical Hodgkin lymphoma |
| | Pediatric nodal marginal zone lymphoma | Lymphocyte-rich classical Hodgkin lymphoma |
| | Folioular lymphoma | Mixed cellularity classical Hodgkin lymphoma |
| | In situ folicular neoplasia* | Lymphocyte-depleted classical Hodgkin lymphoma |
| | Duodenal-type folicular lymphoma* | rosurenspera lymphoprometauve usoriaets (r rus) |
| | Pediatrio-type follicular tymphoma* | Plasmacytic hyperplasia PTLD |
| | Large B-cell lymphoma with IRF4 rearrangement* | Infectious mononucleosis PTLD |
| | Primary outaneous folicle center lymphoma | Florid folicular hyperplasia PTLD* |
| | Mante cell lymphoma | Polymorphic PTLD |
| | In situ mantle cell neoplasia* | Monomorphic PTLD (B- and T-/NK-cell types) |
| | Diffuse large B-cell lymphoma (DLBCL), NOS | Classical Hodgkin lymphoma PTLD |
| | Germinal center B-cell type* | Histiocytic and dendritic cell neoplasms |
| | Activated B-cell type* | Histiccytic sarooma |
| | T-cel/histiocyte-rich large B-cel lymphoma | Langerhans cell histocytosis |
| | Primary DLBCL of the central nervous system (CNS) | Langerhans cell sarcoma |
| | Primary cutaneous DLBCL, leg type | Indeterminate dendritic cell turnor |
| | EBV* DLBCL, NOS* | Interdigitating dendritic cell sarcoma |
| | EBV* mucocutaneous ulcer* | Folloular dendritic cell sarcoma |
| | DLBCL associated with chronic inflammation | Fibroblastic reticular cell tumor |
| | Lymphomatoid granulomatosis | Disseminated juvenile xanthogranuloma |
| | Primary mediastinal (thymic) large B-cell lymphoma | Erdheim-Chester disease* |
| | Intravascular large B-cell lymphoma | |
| | ALK* large B-cell lymphoma | Provisional entities are listed in italics. *Changes from the 2008 classification. |
| | Plasmablastic lymphoma | "Unanges from the 2008 classification. |
| | Primary effusion lymphoma | |
| | HHV8' DLBCL, NOS' | |
| | Burkitt lymphome | |
| | Burkitt-like Amphome with 11g aberration? | |
| | High-grade B-cell lymphoma, with MYC and BCL2 and/or BCL6 rearrangements* | |
| | High-grade B-cell lymphoma, NOS* | |
| | B-cell lymphoma, unclassifiable, with features intermediate between DLBCL and | |
| | classical Modelia humborea | |
| | Mature T and NK neoplasms | |
| | T-cel prolymphocytic leukemia | |
| | T-cel large granular lymphocytic leukemia | |
| | Chronic lumphoproliferative disorder of NK cells | |
| | Aggressive NK-cell leukemia | |
| | Systemic EBV* T-cell lymphoma of childhood* | |
| | Hydros vacciniforme-like lymphoproliferative disorder* | |
| | | |
| | | |
| | Adult T-cell leukemia/tymphoma | |
| | Adult T-cell Isukemiatymphoma Extranodal NK-/T-cell lymphoma, nasal type Entergathy-associated T-cell lymphoma | |

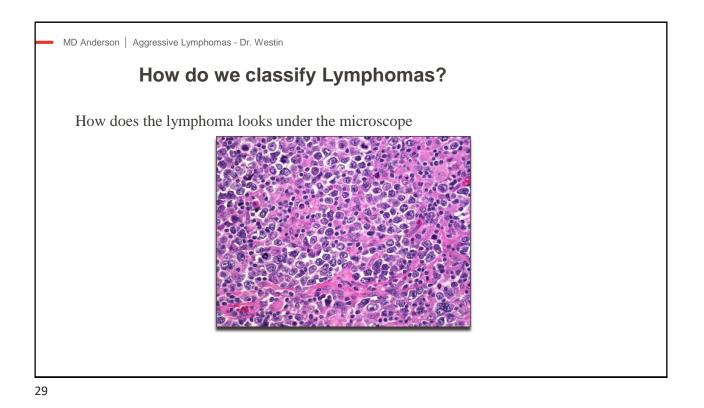


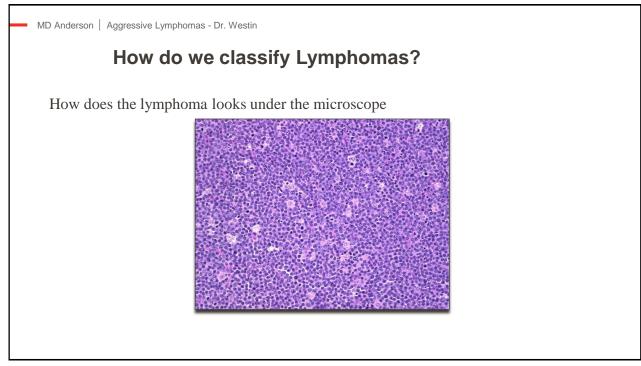


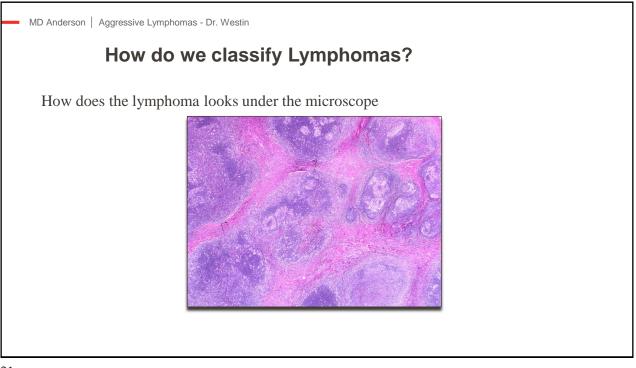


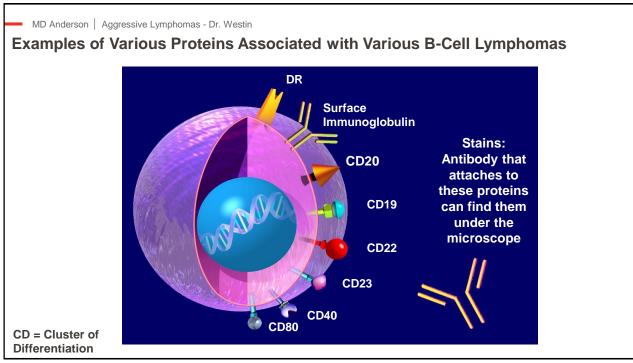




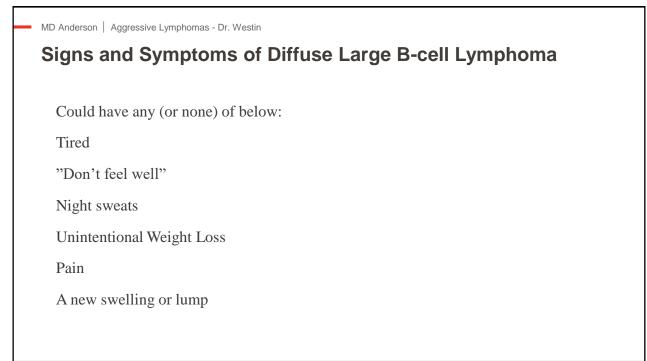






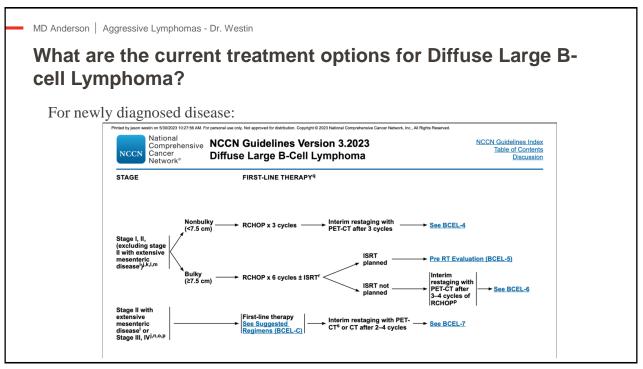


| _ymphomas • "Markers" are • They can be • These can be of lymphoma | produced by studied un | y both canc | er cells an | d normal ce | ells |
|--|---------------------------|--------------|-------------|-------------|--------------|
| Marker | FL | SLL/CL L | MCL | MZL | T Cell |
| CD20 | Pos | Pos | Pos | Pos | Neg |
| CD10 | Pos | Neg | Neg | Neg | Neg |
| CD5 | Neg | Pos | Pos | Neg | Pos |
| CD23 | Neg | Pos | Pos | Neg | Neg |
| Cyclin D1 | Neg | Neg | Pos | Neg | Neg |
| Cytogenetics | t(14;18) | Various | t(11;14) | Various | Various |
| CD: Cluster o Not all are ab Note: The get | solute: The | re are often | | - | y/negativity |



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| 1 | MD Anderson Aggressive Lymphomas - Dr. Westin |
|----|--|
| 1 | What happens after diagnosis? |
| | |
| | Testing to see where the lymphoma exists in the body |
| | • PET/CT scan |
| | Bone Marrow Biopsy |
| | • Blood tests |
| | |
| | Testing to see if any limitations on treatment due to other medical problems |
| | • Echocardiogram |
| | • EKG |
| | • Blood tests |
| | |
| | |
| 35 | |



Current Therapy

RCHOP

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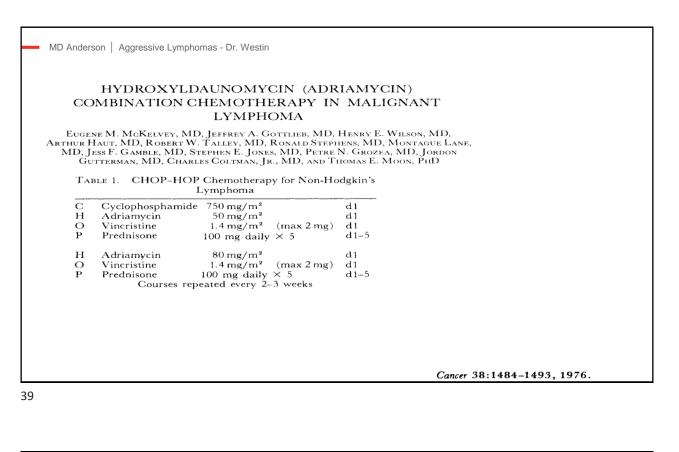
Cancer 38:1484-1493, 1976.

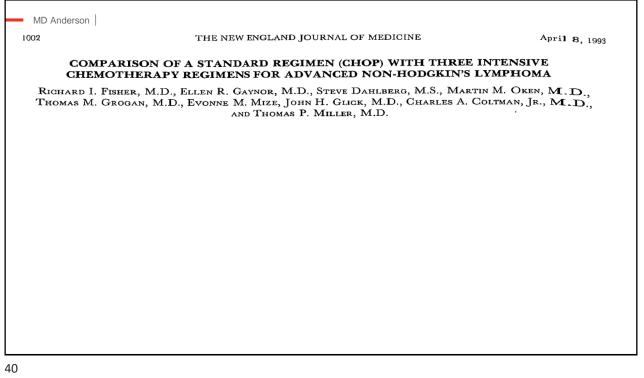
MD Anderson Aggressive Lymphomas - Dr. Westin

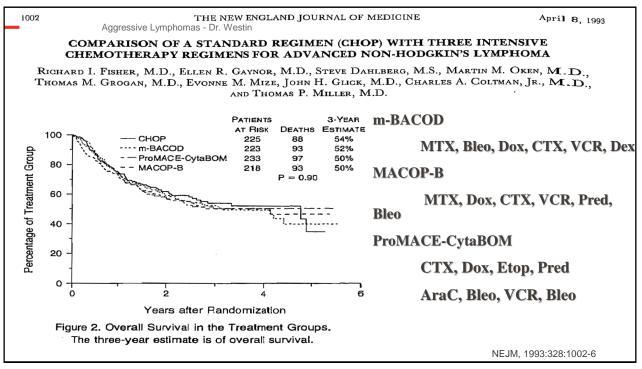
HYDROXYLDAUNOMYCIN (ADRIAMYCIN) COMBINATION CHEMOTHERAPY IN MALIGNANT LYMPHOMA

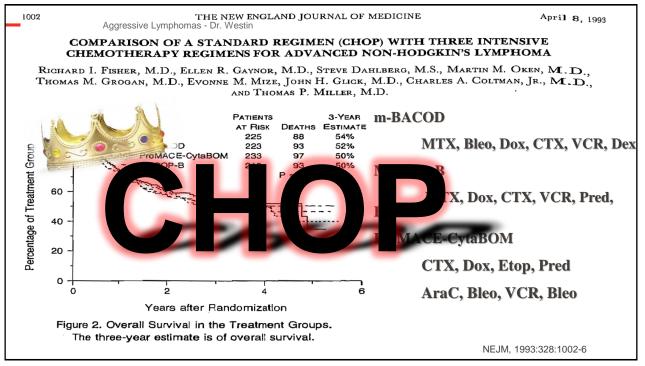
Eugene M. McKelvey, MD, Jeffrey A. Gottlieb, MD, Henry E. Wilson, MD, Arthur Haut, MD, Robert W. Talley, MD, Ronald Stephens, MD, Montague Lane, MD, Jess F. Gamble, MD, Stephen E. Jones, MD, Petre N. Grozea, MD, Jordon Gutterman, MD, Charles Coltman, Jr., MD, and Thomas E. Moon, PhD

Cancer 38:1484-1493, 1976.









How is RCHOP given?

IV usually via port or PICC

• Drugs are vessicants

IV portion is over 1 day every 3 weeks

Oral is daily for 5 days, every 3 weeks from start date

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What are the main side effects of RCHOP?

Fatigue

Nausea

Infection risk

What are rare but serious side effects of RCHOP?

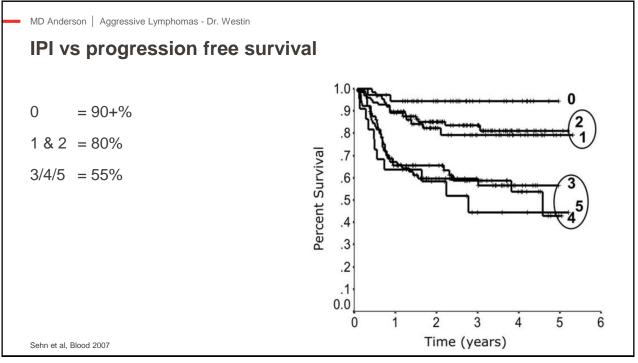
Low chance of heart failure

Low chance of bone marrow problems like myleodysplasia or leukemia

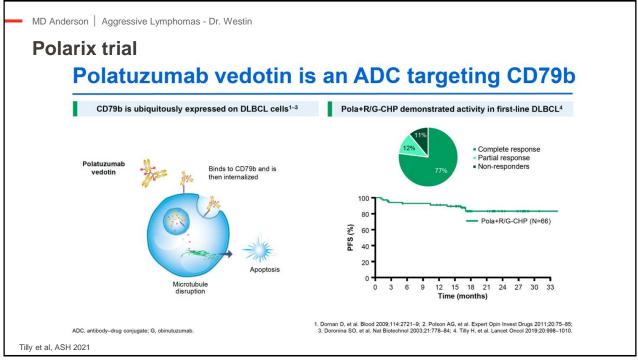
Low chance of bleeding from the bladder

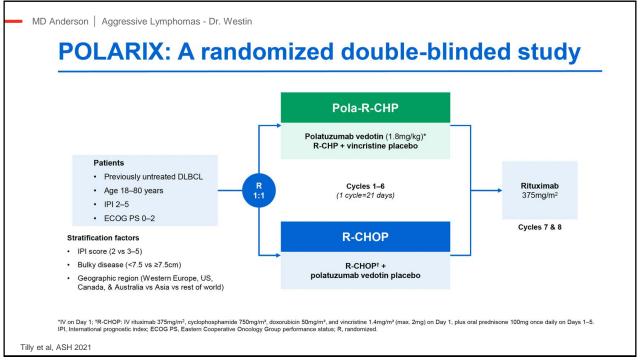
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How likely is RCHOP to work?
Remember the IPI: APLES
Age >60
Performance status – impaired
LDH – elevated
Extranodal sites >=2
Stage III/IV

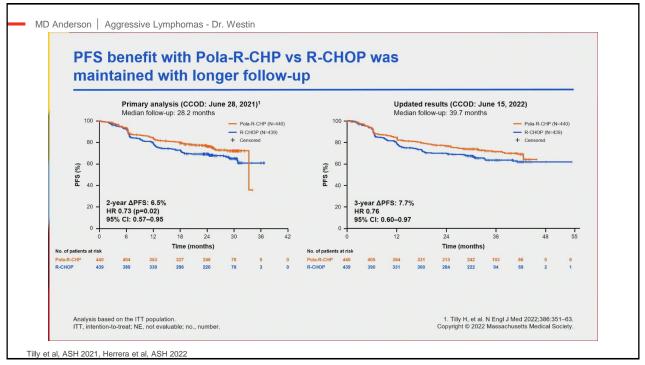


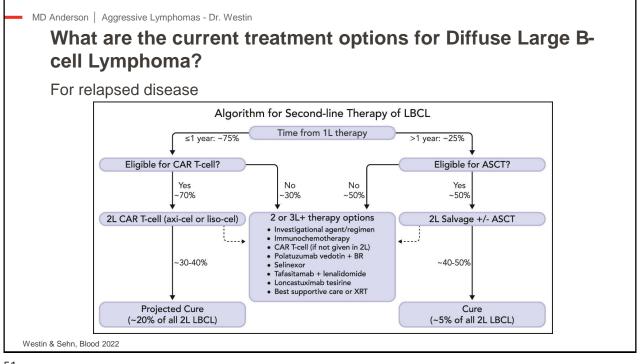




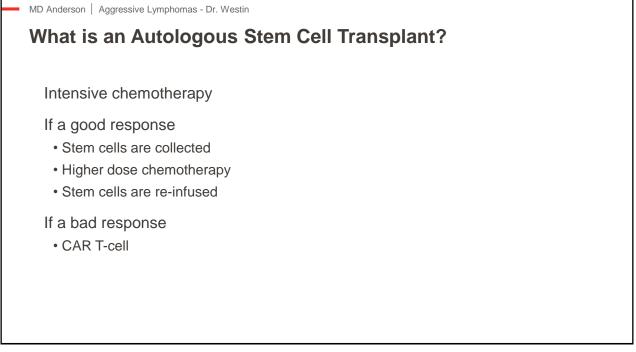


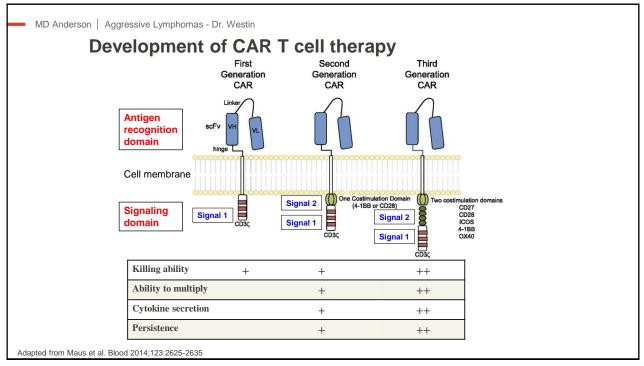




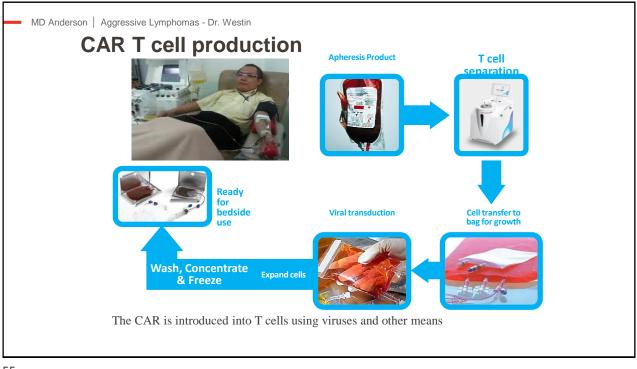


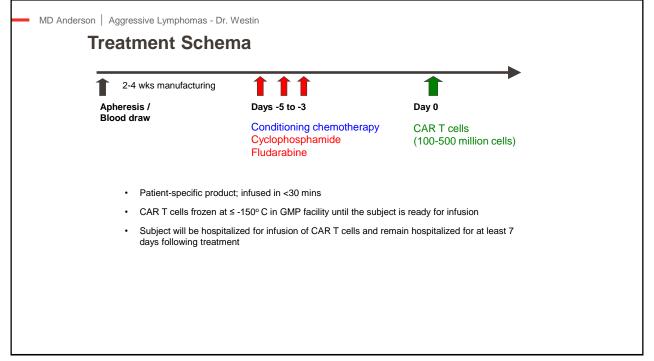


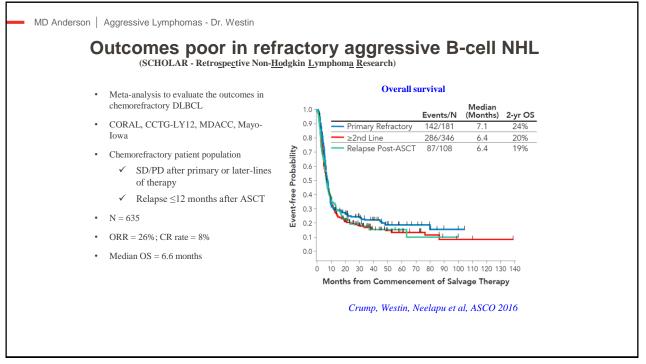


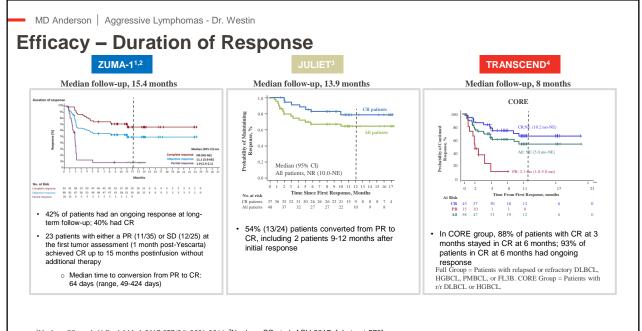


| | gressive Lymphomas - Dr. Westin | |
|-----|---------------------------------|--|
| CAR | targets in develop | oment |
| Та | arget(s) | Tumor |
| C | D19 , CD20, CD22, CD23 | B cell leukemia/lymphoma |
| C | CD30 | T cell leukemia/lymphoma, Hodgkin lymphoma |
| С | D38, BCMA, SLAM-F7 | Multiple myeloma |
| С | D123 | Acute myeloid leukemia |
| N | lesothelin | Pancreatic carcinoma |
| α | -folate receptor | Ovarian Carcinoma |
| С | CAIX | Renal Cell Carcinoma |
| С | EA | Colon Carcinoma |
| Н | ler2 | Breast Carcinoma |
| G | BD2 | Neuroblastoma |
| G | D3 | Melanoma |
| L | .ewis-Y | Colon Carcinoma |
| P | PSMA | Prostate Carcinoma |

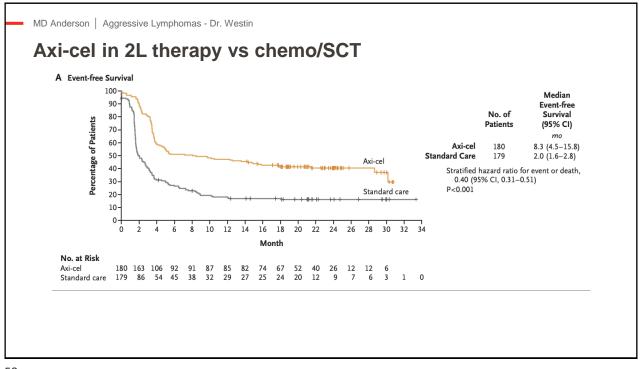


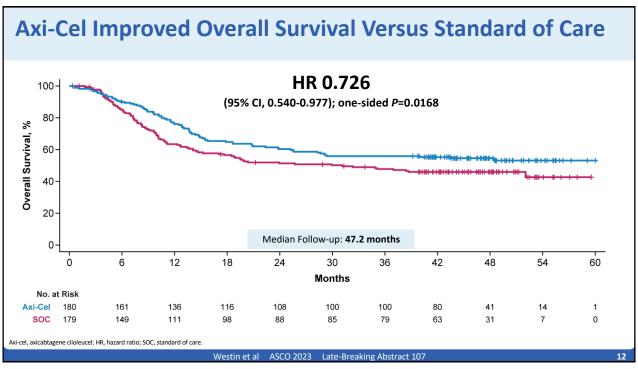


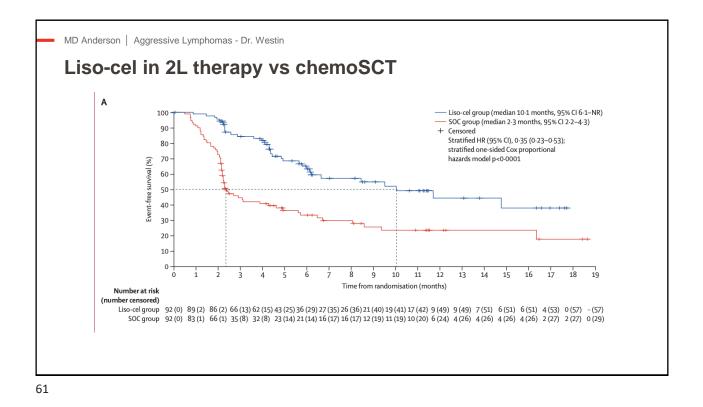


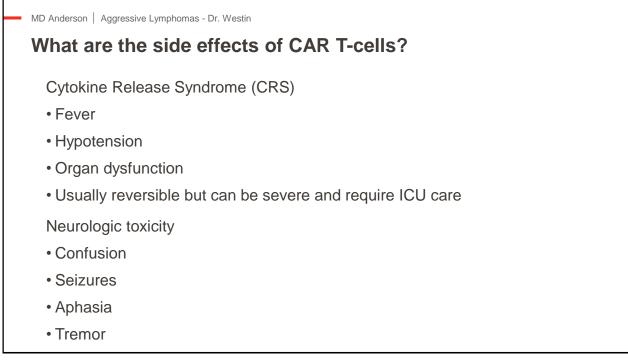


¹Neelapu SS, et al. N Engl J Med. 2017;377(26):2531-2544. ²Neelapu SS et al. ASH 2017. [abstract 578].
³Borchmann P et al, EHA 2018. [abstract S799]. ⁴Abramson JS et al, ASCO 2018. [abstract 7505].









MD Anderson | Aggressive Lymphomas - Dr. Westin What are the side effects of CAR T-cells? Cytokine Release Syndrome (CRS) • Treated with supportive care when mild (tylenol, cooling blankets, etc) • Treated with drugs targeting IL6 when moderate/severe (tocilizumab, siltuxumab) • Treated with corticosteroids when severe Cell therapy Related Encephalopathy Syndrome • Treated with supportive care when mild (re-orientation, avoid sedation) • Treated with drugs targeting IL6 when moderate/severe with CRS (tocilizumab, siltuxumab) • Treated with drugs targeting IL6 when moderate/severe with CRS (tocilizumab, siltuxumab) • Treated with corticosteroids when severe

MD Anderson Aggressive Lymphomas - Dr. Westin

What do I need to know about being a CAR T cell patient?

Risk of infection

- Immunosuppressed
- Bacterial infections
- PCP/PJP pneumonia
- HSV
- CMV

Late cytopenias

Can relapse, but usually not after 6 months

What do I need to remember about Diffuse Large B-cell Lymphoma?

DLBCL is common, curable, and complicated

A biopsy is required for diagnosis

Treatment is chemotherapy with immune therapy

• 1L RCHOP or R-CHP-Pola

• 2L CAR T-cell for <12m, chemo/SCT for >12m

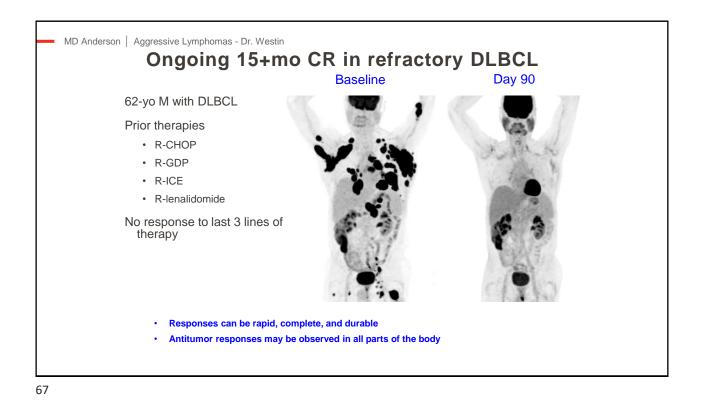
Many drugs approved for 3rd line treatment

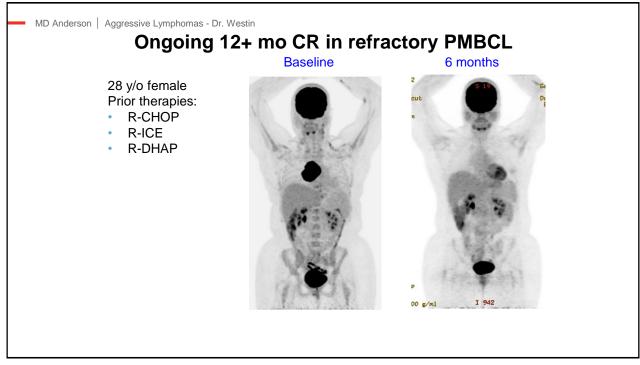
Clinical trials are essential for future progress

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MD Anderson Aggressive Lymphomas - Dr. Westin

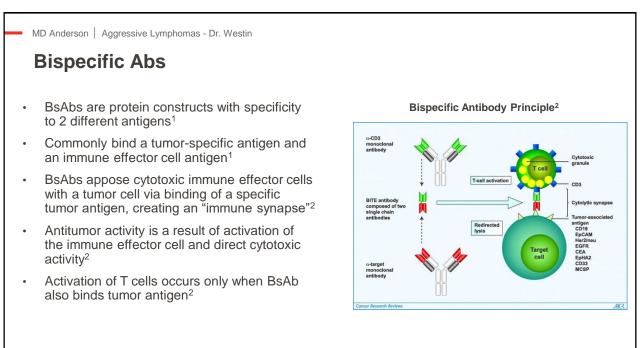
Patient Story



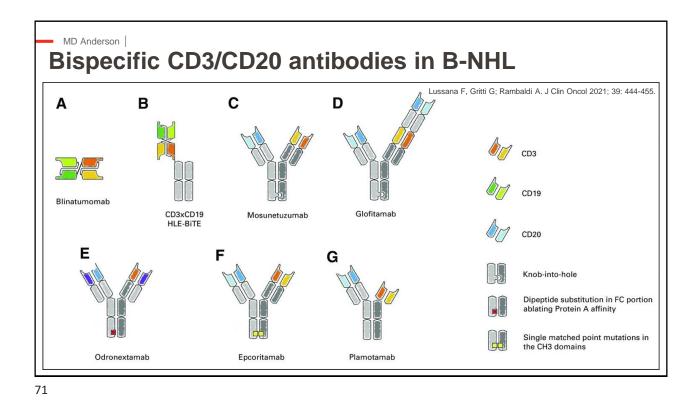


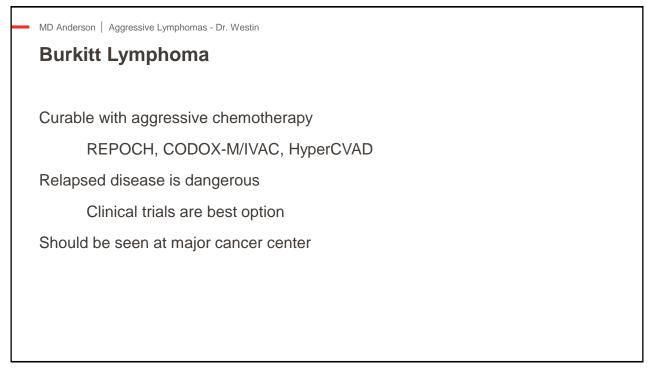
MD Anderson | Aggressive Lymphomas - Dr. Westin New Drugs Polatuzumab Antibody drug conjugate vs CD79B Tafasitamab Antibody vs CD19 Loncastuximab Antibody drug conjugate vs CD19 Epcoritomab (others coming soon) Bi-specific antibody vs CD20/CD3

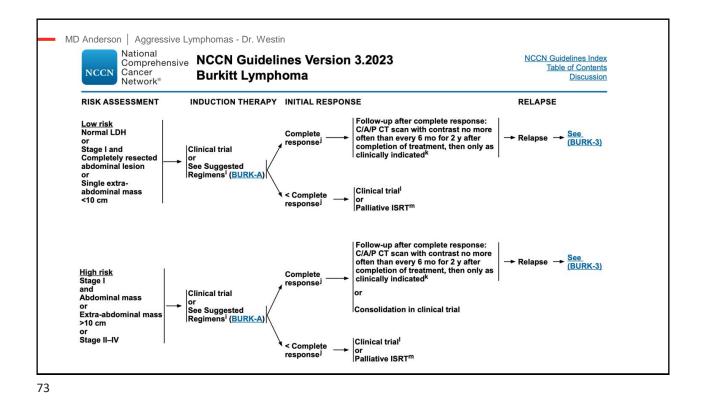
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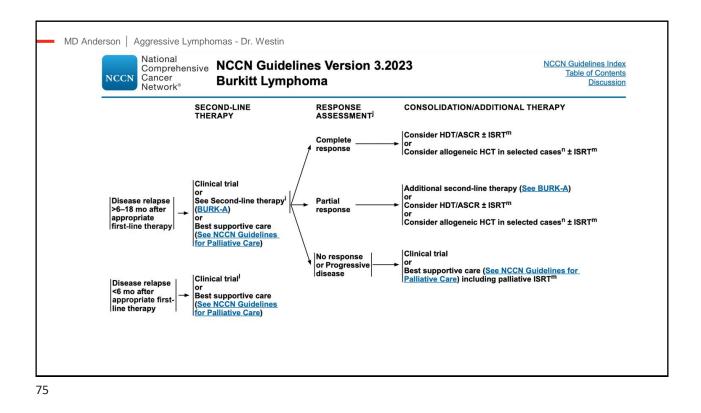
1. Lum LG, Thakur A. BioDrugs. 2011;25(6):365-379. 2. Baeuerle P, Reinhardt C. Cancer Res. 2009;69(12):4941-4944.

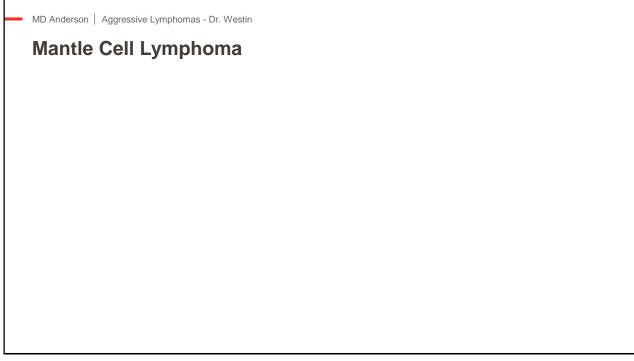






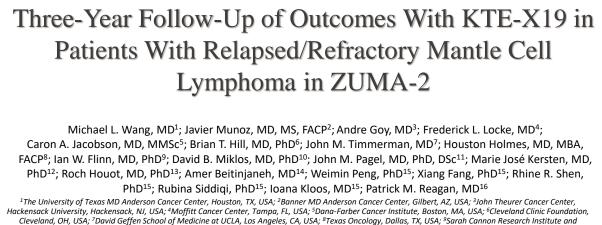
| NCCN | National Comprehensive Cancer Network® | NCCN Guidelines Version 3.2023 Burkitt Lymphoma | NCCN Guidelines Index Table of Contents Discussion |
|-------|---|--|---|
| | | SUGGESTED TREATMENT REGIMENS ^{a,b} | |
| | not an adequate the | An FDA-approved biosimilar is an appropriate substitute for rituxi | mab. |
| AGE | RISK | INDUCTION THERAPY | |
| | Low Risk | Preferred regimens (alphabetical order) • CODX-M (original or modified) (cyclophosphamide, doxorubicin, vinc and cytarabine followed by high-dose systemic methotrexate) + rituxim • Dose-adjusted EPOCH (etoposide, prednisone, vincristine, cyclophosp (minimum 3 cycles with one additional cycle beyond CR) (regimen incli • HyperCVAD (cyclophosphamide, vincristine, doxorubicin, dexamethasis methotrexate and cytarabine + rituximab (regimen includes intrathecal | nab (3 cycles) hamide, doxorubicin) + rituximab udes intrathecal methotrexate) one) alternating with high-dose |
| <60 y | High Risk | Preferred regimens (alphabetical order) High-risk patients presenting with symptomatic CNS disease should be systemic therapy that contains CNS-penetrating drugs. CODOX-M (original or modified) (cyclophosphamide, doxorubicin, vinc and cytarabine followed by high-dose systemic methotrexate) alternati etoposide, intrathecal methotrexate) + rituximab HyperCVAD (cyclophosphamide, vincristine, doxorubicin, dexamethase methotrexate and cytarabine + rituximab (regimen includes intrathecal Other recommended regimen - Dose-adjusted EPOCH (etoposide, prednisone, vincristine, cyclophosp (for high-risk patients with baseline CNS disease not able to tolerate ag includes intrathecal methotrexate) (Data included patients with leptom parenchymal CNS disease were excluded in the clinical trials of this rej | ristine with intrathecal methotrexate ng with IVAC (ifosfamide, cytarabine, one) alternating with high-dose therapy) hamide, doxorubicin) + rituximab gressive treatments) (regimen eningeal CNS disease; patients with |
| ≥60 y | Low and High Risk | Preferred regimen • Dose-adjusted EPOCH (etoposide, prednisone, vincristine, cyclophosp (minimum 3 cycles with one additional cycle beyond CR) (regimen incli included patients with leptomeningeal CNS disease; patients with pare in the clinical trials of this regimen.) • In high-risk patients presenting with symptomatic CNS disease, the m be addressed with the initial regimen. | udes intrathecal methotrexate) (Data nchymal CNS disease were excluded |





Rome,

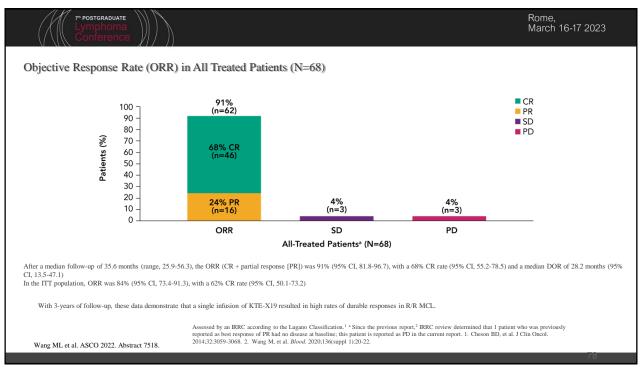
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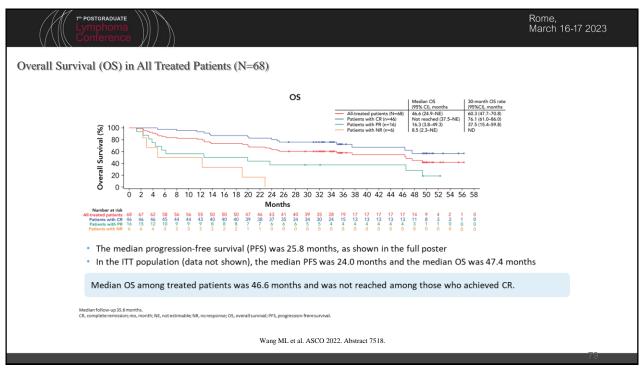


Hackensack University, Hackensack, NJ, USA; ⁴Moffitt Cancer Center, Tampa, FL, USA; ⁵Dana-Farber Cancer Institute, Boston, MA, USA; ⁶Cleveland Clinic Foundation, Cleveland, OH, USA; ⁷David Geffen School of Medicine at UCLA, Los Angeles, CA, USA; ⁸Texas Oncology, Dallas, TX, USA; ⁹Sarah Cannon Research Institute and Tennessee Oncology, Nashville, TN, USA; ¹⁰Stanford University School of Medicine, Stanford, CA, USA; ¹¹Swedish Cancer Institute, Seattle, WA, USA; ¹²Amsterdam UMC, University of Amsterdam, Amsterdam, Cancer Center Amsterdam, The Netherlands, on behalf of HOVON/LLPC; ¹³CHU Rennes, Université Rennes, INSERM & EFS, Rennes, France; ¹⁴University of Miami, Miami, FL, USA; ¹⁵Kite, a Gilead Company, Santa Monica, CA; and ¹⁶University of Rochester Medical Center, Rochester, NY, USA

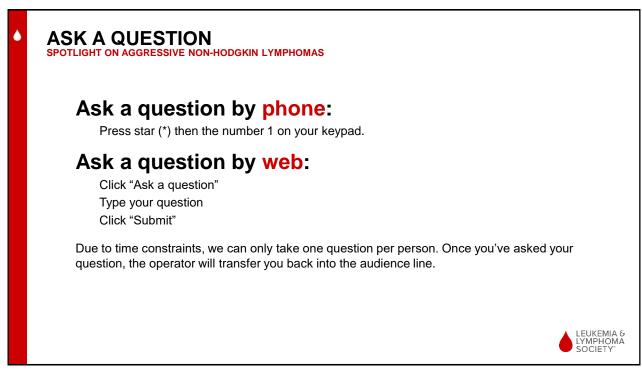
Wang ML et al. ASCO 2022. Abstract 7518.

POSTGRADUATE









LLS EDUCATION & SUPPORT RESOURCES



HOW TO CONTACT US:

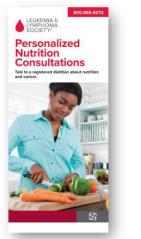
To contact an **Information Specialist** about disease, treatment and support information, resources and clinical trials:

Call: (800) 955-4572 Monday to Friday, 9 a.m. to 9 p.m. ET

Chat live online: www.LLS.org/InformationSpecialists Monday to Friday, 10 a.m. to 7 p.m. ET

Email: www.LLS.org/ContactUs All email messages are answered within one business day.

CLINICAL TRIAL SUPPORT CENTER Work one-on-one with an LLS Clinical Trial Nurse Navigator who will help you find clinical trials and personally assist you throughout the entire clinical-trial process. www.LLS.org/Navigation



NUTRITION CONSULTATIONS Our registered dietitian has expertise in oncology nutrition and provides free one-on-one consultations by phone or email. www.LLS.org/Consult.



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LLS EDUCATION & SUPPORT RESOURCES



Online Chats

Online Chats are free, live sessions, moderated by oncology social workers. To register for one of the chats below, or for more information, please visit www.LLS.org/Chat

Education Videos

View our free education videos on disease, treatment, and survivorship. To view all patient videos, please visit www.LLS.org/EducationVideos

Patient Podcast

The Bloodline with LLS is here to remind you that after a diagnosis comes hope. To listen to an episode, please visit www.TheBloodline.org



LLS EDUCATION & SUPPORT RESOURCES

LEUKENIA G LYMPHOMA SOCIETY

CANCER AND

VILLA



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The Leukemia & Lymphoma Society (LLS) offers the following financial assistance programs to help individuals with blood cancers: www.LLS.org/Finances

To order free materials: www.LLS.org/Booklets

4 CARESIVING DUR



Please complete a short survey to provide us with your valuable feedback and to be entered to win a gift card: www.LLSeval.org

We have one goal: A world without blood cancers



LEUKEMIA & LYMPHOMA SOCIETY"