

17th Annual INDY HEMATOLOGY REVIEW 2020

State of the Art 2020: Emerging Therapies in Hematologic Malignancies

Ruemu E. Birhiray, MD

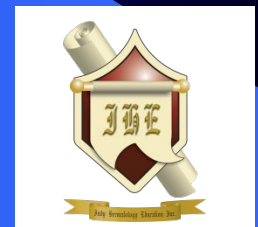
Program Chair

CEO, Indy Hematology Education, Inc

*Partner, Hematology Oncology of Indiana, American
Oncology Network, PA, Indianapolis, IN*

Clinical Professor of Medicine,

Marian University College of Medicine, Indianapolis, IN



DISCLOSURES

SPEAKERS BUREAU

- JANSEN BIONCOLOGY, PFIZER, BMS, AMGEN, GLAXO, PHARMACYCLICS, ASTRAZENECA, GENOMIC HEALTH, NOVARTIS, INCYTE, SANOFI ONCOLOGY, PUMA, EXELEXIS, LILLY, DOVA, KARYOPHARM, MORPHOSYS, SEATTLE GENETICS, DAIICHI SANKYO

CONSULTANT

- ABBVIE, NORVATIS
- JANSEN BIONCOLOGY
- KARYOPHARM
- PUMA

ADVISORY BOARD

- ABBVIE
- DOVA
- RIGEL PHAMACEUTICALS

RESEARCH

- AMGEN
- PUMA
- TAKEDA

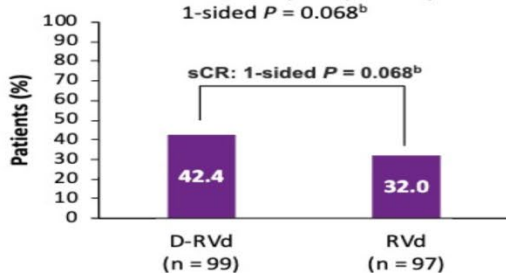
Myeloma: Initial Therapy

- **GRIFFIN**: Phase II Study of Daratumumab + VRd vs VRd Alone for Transplant-Eligible NDMM, N=207, sCR by the end of consolidation: 42.4% vs. 32.0%, no effect on stem cell mobilization, (1-sided $P = .068$), MRD ITT 51% vs. 18.4% ($P > 0.0001$)

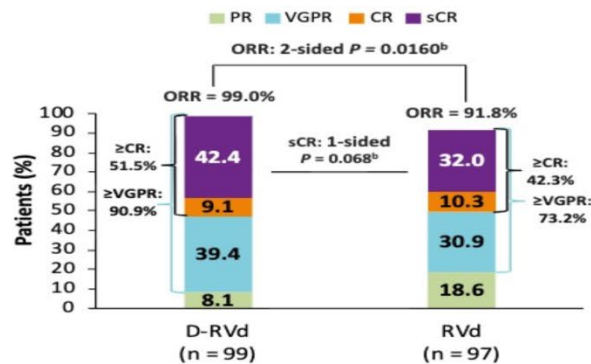
Primary Endpoint: sCR by the End of Consolidation^a

- **Primary endpoint met at pre-set 1-sided alpha of 0.1**

- sCR by end of consolidation
 - 42.4% D-RVd vs 32.0% RVd
 - Odds ratio, 1.57; 95% CI, 0.87-2.82; 1-sided $P = 0.068^b$



Post-consolidation depth of response^a



^aResults from primary analysis cutoff date (median follow-up, 13.5 months). Included patients in response-evaluable population (all randomized patients with confirmed MM diagnoses, measurable disease at baseline, received ≥ 1 dose of study treatment, and had ≥ 1 post-baseline disease assessment). ^b P values calculated using Cochran-Mantel-Haenszel chi-square test. A 1-sided P value is reported for sCR; for all other responses, 2-sided P values not adjusted for multiplicity are reported.

- **MASTER**: Phase II, Dara-KRd in Transplant-Eligible NDMM: N=81, 21% African American, 51% High Risk, few discontinuations for toxicity.
- 39% sCR post induction (high risk: 25%) and 95% at MRD-based consolidation.
- **HOVON 143**: Interim Analysis: Phase II, NDMM, frail/unfit, N=46, ixazomib/daratumumab/low-dose dexamethasone, ORR: 74%; mPFS: 23 mos.
- **GEM-CESAR**: Phase II, KRd, for High-Risk Smoldering Myeloma: N=90, End of therapy response (Induction/ASCT/Consolidation): 76% \geq CR, 63% MRD negative.

TARGETING RELAPSED/REFRACTORY MYELOMA

CD38

- **CANDOR:** N = 466, Phase III, **Carfilzomib, Dexamethasone ± Daratumumab** in R/R MM
- ORR 84.3vs74.7%, > VGPR 69.2 vs 48.7%, > CR28.5 vs., 10.4%, MRD negative at 12 mos (10^{-5}) 17.6 vs. 3.9% (37% reduction in risk of progression /death, MRD-negative CR @12 mos ~10-fold > with KdD vs Kd)

BCMA: B-cell maturation antigen: TNF superfamily cell-surface receptor required for PC survival/signaling

CAR T THERAPY:

- **CARTITUDE-1: JNJ-4528** CAR T-cells with 2 BCMA-targeting domains for increased avidity plus a 4-1BB costimulatory domain (identical to LCAR-B28M), Phase I/Iib, N=29, Median time to first response: 1 month
 - ORR: 100% with $\geq 69\%$ CR rate, 100% of evaluable patients MRD negative, 27 of 29 PFS @ 6 mo
- **LEGEND-2:** Phase I, **LCAR-B38M** CART-T-cells, ORR 88% @ 25 mos, mPFS: 19.9 mos, mOS: 36.1 mos

BITE ANTIBODY:

- **CC93269:** Humanized, IgG1 T-cell engager that binds BCMA and CD3 ϵ on T-cells
 - ORR in 10-mg group: 88.9% (sCR/CR: 44.4% with 100% MRD), CRS: 76.7%, majority grade 1/2.

ANTIBODY DRUG CONJUGATE (ADC):

- **DREAMM-2: Belantamab mafodotin**, BCMA targeting ADC, Phase II, N=196, ORR 31-34%
- **DREAMM-6: Belantamab mafodotin + Vd (ASCO2020):** ORR of 78%, VGPR of 50%, and CBR of 83%

XPO-1

- **STOMP:** Phase I/II, **Selinexor, Pomalidomide/Dexamethasone** in R/RMM, N=51, ORR 56%, CBR 78%

BCL-2:

- **Phase I/II: Venetoclax + Dexamethasone + Daratumumab ± Bortezomib in t(11;14) R/R MM (ASH2019):** 87% refractory to dara, 48% \geq PR and 35% \geq VGPR, 12-mo DoR of 61% and mTTP ~ 11 mos
- **BELLINI Phase III, Ven+Bort/Dex in RRMM (ASCO 2020):** Improved PFS, ORR, MRD but worse OS except in t(11:14)

Chronic Leukemia

- FIRST LINE THERAPY in CLL/SLL

- ELEVATE TN

- Phase III, N=535, Acalabrutinib ± obinutuzumab significantly improved PFS compared with obinutuzumab + chlorambucil in treatment-naive CLL, ORR: 93.9 vs 85.5 vs 78.5% (P < .0001; P = .0763), fewer deaths in either acalabrutinib treatment arms.

- Venetoclax + ibrutinib

- Phase II, as first-line, fixed-duration treatment in high-risk CLL/SLL, ≥ 65 yrs of age, del(17p), mutated TP53, del(11q), and/or unmutated IGHV

- N=80, MRD response of 75% in ITT population

- CAPTIVATE

- Phase II, First-line Ibrutinib Plus Venetoclax in CLL/SLL, N=164, MRD: PB 75% and BM 72%

- Acalabrutinib, Venetoclax, and Obinutuzumab (AVO):

- Phase II therapy in treatment-naive CLL, N=37, 48% undetectable MRD in BM after 8 cycles

- RELAPSES/REFRACTORY CLL/SLL

- LOXO-305: BRUIN, Phase I, next-generation, non-covalent BTK inhibitor: N=16, ORR 77%

- TRANSCEND CLL 004: Phase I/II, Lisocabtagene Maraleucel; N=23, ORR: 81.5%, CR 45.5%

- SEQUOIA: Zanabrutinib, Phase III, Arm C, TN-CLL: N=109, ORR 90%

- RELAPSES/REFRACTORY CML

- Asciminib: CML in ABL Kinase Inhibitor Failures, Phase I, N=141, MMR 48% (mT315I = 28%)

Lymphoma

- **GO2971: Mosunetuzumab (BTCT4465A):** AntiCD20 BiTE: Phase I/Ib Study in R/R NHL: N=270, Aggressive NHL responses: ORR: 37.1%, CR: 19.4% (n=124), Indolent NHL responses: ORR: 62.7%, CR: 43.3% (n=67)
- **TRANSCEND NHL 001:** Phase I Study of Lisocabtagene Maraleucel in R/R LBCL, N=269
- ORR: 73%, CR 53%, DoR @ 12: 54.7%, CAR+ T-cells at 1 yr in 53%
- **ZUMA-2:** Trial of KTE-X19 CAR T-Cell Therapy in Relapsed/Refractory Mantle Cell Lymphoma.
- N=68, ORR of 93%, CR: 67%. 43% of initial cohort in remission with ≥ 2 years f/u.
- **BRUIN: LOXO-305,** Non-Covalent BTK Inhibitor in MCL, N=6, ORR 50% (3/6), CR 17% (1/6)
- **GO29834:** Phase Ib/II, in R/R FL of polatuzumab vedotin, obinutuzumab and lenalidomide.
- N=56, ORR 83%, CR 61%, 83% PFS @ 12 mo.
- **Tazemetostat:** EZH2 Inhibitor Phase II in R/R FL, N=99, ORR (MT): 45%, (WT) 83%
- **Brentuximab Vedotin Plus Nivolumab in Hodgkin Lymphoma**
- **First line Therapy:** Older patients, N=18, ORR 100%, CR 77%, mDoR NR
- **Relapsed/Refractory HD:** N=91, ORR 85%, CR 67%.
- **Cerdulatinib with R/R PTCL and CTCL:** Dual inhibition of SYK and JAK, ORR: 35%
- **Filo:** Idelalisib plus obinutuzumab in R/R Waldenström macroglobulinemia: ORR 69%

Acute Leukemia

ACUTE MYELOGENOUS LEUKEMIA

- **QUAZAR AML-001**: Phase III, N=472, **CC-486 maintenance** vs. placebo, after First CR in ND AML
Significant improvement in OS and RFS mOS extended 9.9 mos, and mRFS extended 5.3 mos.
- **ECOG-ACRIN E2906**: Phase II, **1 yr maintenance Decitabine** (3 days/cycle) after CR/Cri after 7+3 (or Clofarabine) induction Older AML Patients. N=120, 87.5% FLT3-ITD^{neg} Superior OS (P = .06), trend to improved DFS (P = .12) compared to observation alone
- **Enasidenib + Azacitidine vs Azacitidine** in ND AML with IDH2 mutations, Phase II, N=
Significantly improved ORR (71% vs 42%; P = .0064) and CR (53% vs 12%; P = .0001).
- **FLAG-IDA Plus Venetoclax**: ND AML or in R/R AML, Phase Ib/II Study, N=30,
CR/Cri in R/R AML 70-75%, ND AML 85%, 3 deaths in CR reported. Ongoing dose modified Phase II study, with improved safety.

ACUTE LYMPHOBLASTIC LEUKEMIA

- **COG AALL1331**: Phase III, **Blinatumomab vs Chemotherapy** maintenance for children and AYA with R/R B-ALL, N=208.
Superior DFS and OS, higher rates of MRD and bridging to HSCT, lower AEs and toxicity
- **GIMEMA LAL 2116 D-ALBA**: Frontline **Dasatinib + Blinatumomab** in ND Ph+ ALL, Phase II, N=63, 60.4% CMR/PNQ status after 2 cycles, OS and DFS: 95.2% and 89.7%, @ mF/u 14mos.
- **M16-106**: **Venetoclax Plus Navitoclax** in R/R ALL and Lymphoblastic Lymphoma, Phase I, N=45
CR/CRi/CRp: 49%, MRD negative CR: 29%, mDoR: 9.1 mos

Myelodysplastic Syndromes and Myeloproliferative Neoplasms

MPN

- **Luspatercept in Myelofibrosis**: Phase II, N=76, Hg response in all patients independent of RBC transfusion dependence.
 - Effects more profound in patients who also received ruxolitinib.
- **MANIFEST, CPI-0610**, N=54, Phase II
- Bromodomain and Extraterminal Domain Inhibitor (BETi), onotherapy or “Add-on” to Ruxolitinib, in Refractory or Intolerant Advanced Myelofibrosis.
- N=54, 24.9% reduction in SV @ 24 weeks and a 58.8% improvement in TSS for TD myelofibrosis.
- 43% converted from TD to TI following treatment with the combination

MDS

- **GFM : APR-246 Plus Azacitidine** in TP53-mutated MDS and AML, Phase II, N=53
- CR in 49% (MDS: 66%, AML: 44%), MRD (Negative TP53 by NGS): 39%, 100% in CR
- **Venetoclax ± Azacitidine** in MDS: Phase Ib, N=64,
- ORR: 40% ORR vs 8% with venetoclax only, 12-mo OS with venetoclax + azacitidine was 65%
- **MEDALIST** Long-term analysis: N=229, RBC-TI \geq 8 Wks
- Luspatercept-treated patients attained RBC-TI compared with placebo (47.7% vs 15.8%)

Malignant/Non Malignant Hematology

- Updated Phase III Study of Avatrombopag: N=49
- Median cumulative duration of PLT $\geq 50,000/\mu\text{L}$ (primary endpoint): 12.4 wks with avatrombopag vs 0 wks with placebo (P < .0001)
- Novel BTKi PRN1008 : R/R Primary or Secondary ITP, Phase I, N=31
- ORR: 39%, Response rate increased to 54% with PRN1008 BID dosing for ≥ 12 wks
- Phase III Northstar-3 (HGB-212): Betibeglogene Autotemcel in Severe Transfusion-Dependent β -Thalassemia, Interim results: N=17
- 9/11 patients with ≥ 6 mos of follow-up off transfusions for ≥ 3 mos
- CARDINAL: Sutimlimab, first-in-class inhibitor of classical CP, Phase III, in transfusion dependent Cold Agglutinin Disease, N=24
- 70.8% Transfusion Independence from wks 5-26, markedly increased Hb, controlled hemolysis.
- BCL11A Targeted Gene Therapy in Sickle Cell Disease: N=15, Pilot Study, HSC transduction efficiency $\geq 93\%$, Effective HbF induction, significantly decreased clinical sickling signs/symptoms
- Adjuvant Oral Arginine in Pediatric SCD, in Severe vaso-occlusive pain episodes (VOE) versus placebo, N=68, Statistically significant decrease in mean total opioid dose use, a shorter time-to-crisis resolution, and shorter length of hospital stay, without serious AEs.
- Bevacizumab Highly Effective for Chronic Bleeding in Hereditary Hemorrhagic Telangiectasia
- N= 140, RBC transfusions and iron infusions decreased by 86% and 66%, with bevacizumab therapy.
- SOAR: Fostamatinib, SYK Inhibitor, for Warm Antibody Autoimmune Hemolytic Anemia (wAIHA)
- N=25, ORR 48% (Hgb >10 without transfusion)

Update from ASCO 2020 and Beyond

- **Epcoritamab CD3 x CD20 Bispecific Antibody**: Phase I/II in R/R B-Cell NHL, q1, then q 4 wks s.c, ORR in evaluable patients: DLBCL @ ≥ 12 mg, 50.0%; FL @ ≥ 0.76 mg, 85.7%. Neurotoxicity, 6.9% and CRS, 56.9% (all grade 1/2)
- **ASPEN**: Phase III, in Waldenström's Macroglobulinemia: Zanubrutinib vs. Ibrutinib, CR + VGPR: IRC, 28.4% vs 19.2% ($P = .0921$, Primary Endpoint) NS statistically; PFS at 12 mos: 89.7% vs 87.2%; OS at 12 mos: 97.0% vs 93.9%.
 - Lower rates of AF/flutter, bleeding, diarrhea, and HTN, higher rate of neutropenia with zanubrutinib.
- **KEYNOTE-204**: Phase III, in R/R cHL, Pembrolizumab significantly improves PFS vs. Brentuximab vedotin, mPFS: 13.2 vs 8.3 mos (HR: 0.65; 95% CI: 0.48-0.88; $P = .00271$). ORR: 65.6% vs 54.2% ($P = .0225$); mDoR: 20.7 vs 13.8 mos.
- **BOSTON**: Phase III, in RRMM, Selinexor, Bortezomib, and Dexamethasone vs Bortezomib and Dexamethasone: 30% improved PFS, HR 0.70, $P = .0075$.
- **ENDURANCE**: Phase III: Carfilzomib (20/36mg/M2 TW)/Len/Dex vs Bortezomib/Len/Dex without early ASCT, non high risk NDMM similar PFS.
- **L-MIND**: Tafasitamab (anti-CD19) + lenalidomide, Phase II, in RR DLBCL, ORR; 60%, CR; 43% and PR;18%.

What does it all mean? My thoughts

- **PRACTICE changing:**

- *Upfront Daratumumab in transplant eligible MM*
- *Upfront Carfilzomib in NDMM (with ASCT - MASTER TRIAL) but ENDEAVOR (without ASCT)?*
- *Upfront Acalabrutinib in CLL*
- *Venetoclax in t(11:14) RRMM (or NDMM)*
- *Blinatumomab maintenance in RR B-ALL*
- *Sutimlimab in Cold Agglutinin Disease*
- *Tafasitamab and Lenalidomide in R/R DLBCL*

- **Potentially Practice changing:**

- *Belantamab mafodotin in RRMM*
- *Maintenance therapy after induction therapy for AML: Decitabine/CC-486*
- *Enasidenib in IDH2 mutant NDAML,*
- *Upfront Blinatumomab and Dasatinib in ND Ph+ B-ALL*
- *Frontline Brentuximab vedotin plus Nivolumab in HL, Pembrolizumab in RR cNHL*
- *KTE-X19 CAR-T in RR MCL*
- *Bevacizumab in Hereditary Hemorrhagic Telangiectasia*
- *Upfront therapy for High Risk Asymptomatic Multiple Myeloma with Curative Intent ?*

- **Stay tuned**

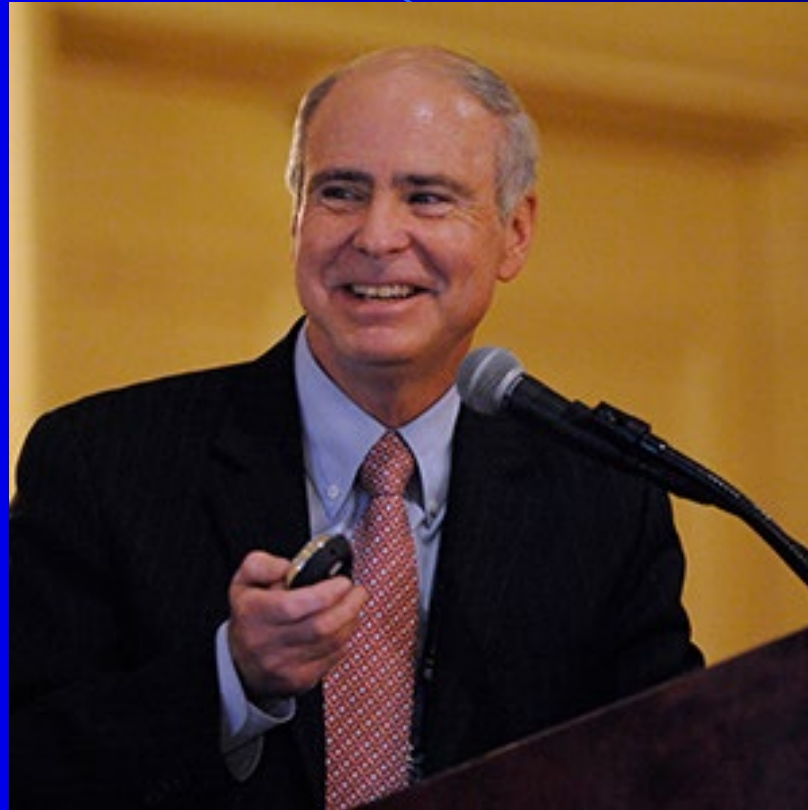
- *Mosunetuzumab in RR lymphoma and Cerdulatinib in RR PTCL/CTCL*
- *Gene Therapy in SCD and Thalassemia and NK Cell – CAR-T Cell*

Co-Chair Indy Hematology Review Challenging Cases



Michael C. Wiemann, MD, FACP
President, Clinical
St. John Providence Physician Network
Detroit, Michigan

Multiple Myeloma



Kenneth Anderson, MD

PAST PRESIDENT AMERICAN SOCIETY OF HEMATOLOGY 2017

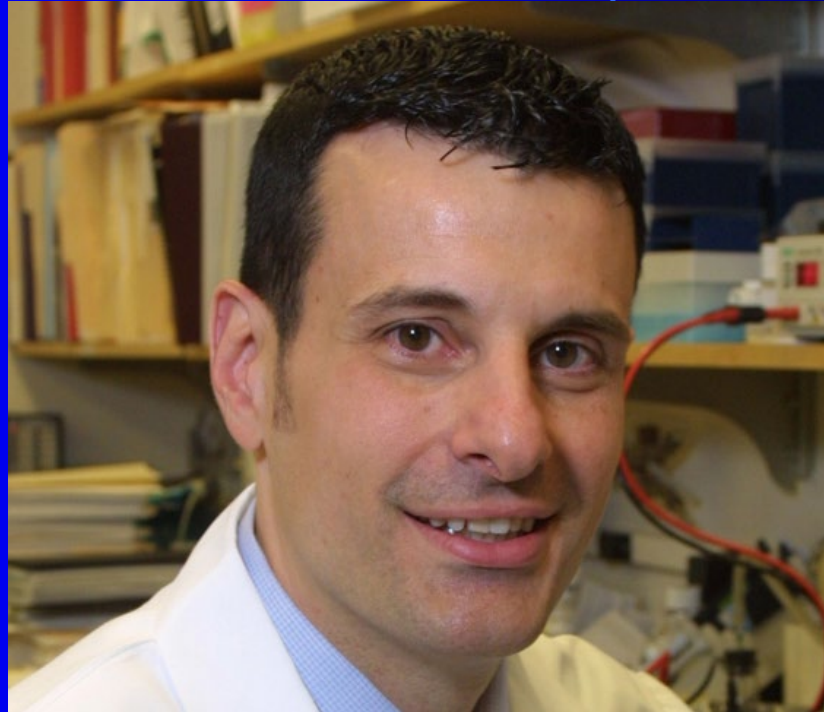
Kraft Family Professor,

Harvard Medical School, Myeloma

Program Director and Chief, Division of Hematologic Neoplasia,

Dana Faber Cancer Institute, Boston, MA

Waldenström's Macroglobulinemia

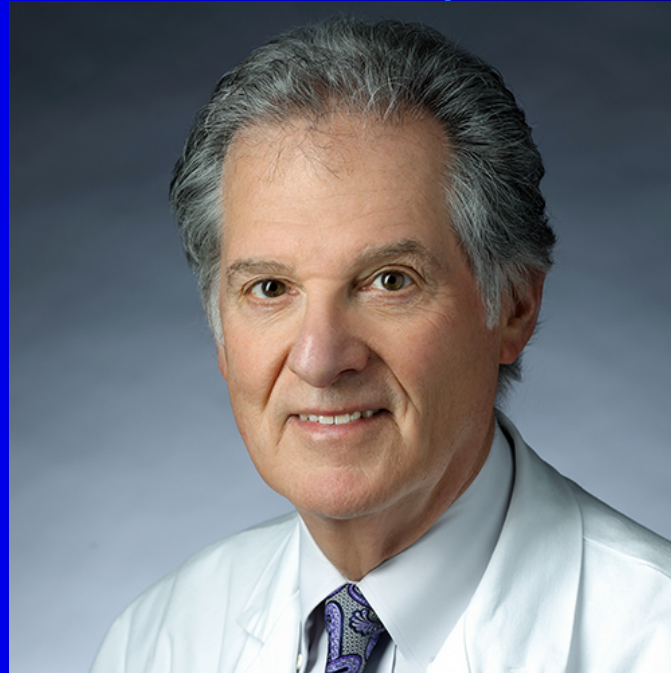


Steven P. Treon, MD, PhD

Director, Bing Center for Waldenström's Macroglobulinemia

Professor of Medicine,
Harvard Medical School
Boston, MA

Indolent Lymphomas



Bruce D. Cheson, MD

Fomerly Professor of Medicine,
Head of Hematology and Director of
Hematology Research, Deputy Chief, Division
of Hematology/Oncology, Lombardi
Comprehensive Cancer Center.
Georgetown University, Washington DC

Aggressive B and T Cell Lymphomas:



Sonali M. Smith, MD

**Elwood V. Jensen Professor of Medicine,
Interim Section Chief of Hematology/Oncology,
and Director of the Lymphoma Program at the
University of Chicago's Department of
Medicine Chicago, IL**

Chronic Lymphocytic Leukemia



Steven Coutre, MD
Professor of Medicine in
Hematology, Stanford University
Medical Center
Palo Alto, CA

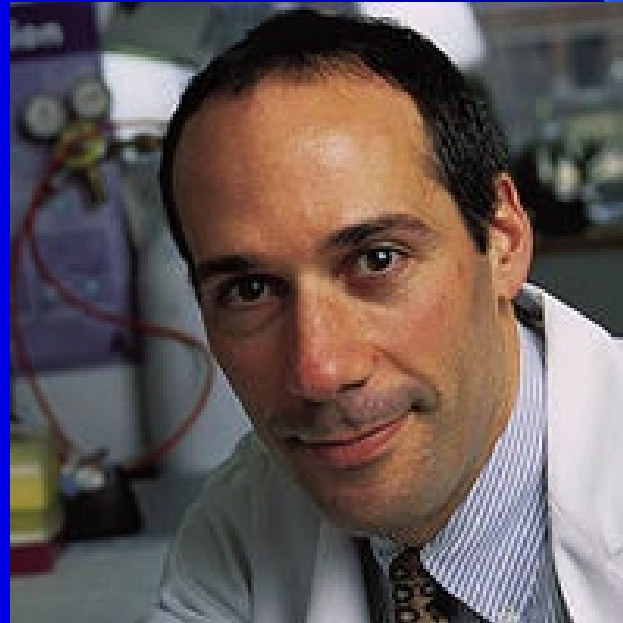
Chronic Myeloid Leukemia



Richard A. Larson, MD

Professor of Medicine ,
Director of the Hematologic Malignancies Clinical Research Program,
University of Chicago,
Chicago, Illinois

Not so Benign Hematology: Complementopathies and Aplastic Anemia



Robert Brodsky, MD

Director, Division of Hematology
Professor of Medicine and Oncology
The Johns Hopkins Family Professor,
Johns Hopkins University,
Baltimore, MD

Myeloproliferative Neoplasms



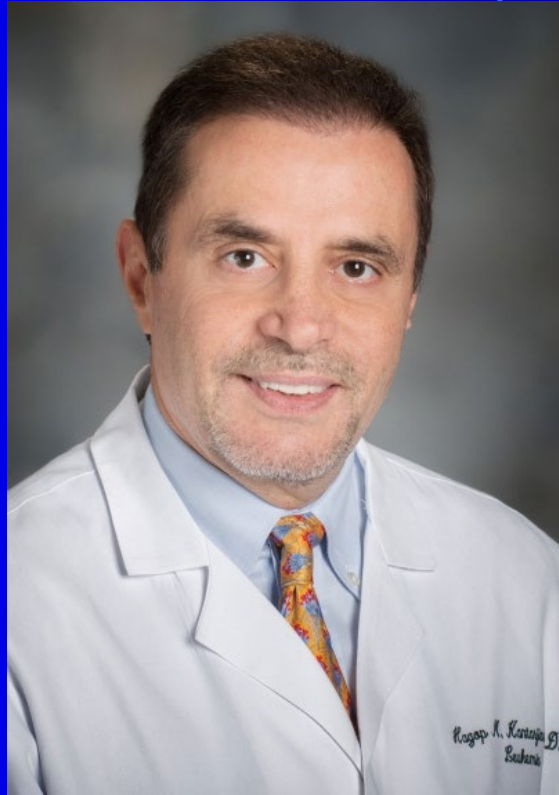
Rami S. Komrokji, MD

Professor of Oncologic Sciences, USF, Tampa, FL

Senior Member, Leukemia and MDS Section

Head Vice Chair, Department of Hematologic Malignancies, Moffitt Cancer Center Tampa, FL

Acute Lymphoblastic Leukemia



Hagop Kantarjian, M.D.

Professor and Samsung Distinguished Leukemia Chair, Department of Leukemia
The University of Texas MD Anderson Cancer Center,
Houston, TX

Acute Myeloid Leukemias



Martin S. Tallman, MD

Professor of Medicine

Chair of the Leukemia Committee of the Eastern
Cooperative Oncology Group (ECOG)

Weill Cornell Medical College

Chief, Leukemia Service

Memorial Sloan Kettering Cancer Center, New York

Myelodysplastic Syndrome



Richard Stone, MD

Professor of Medicine

Chair Leukemia Committee ALLIANCE

Chief of Staff and Director of Translational Research for
the Adult Leukemia Program at Dana-Farber, and
Harvard Medical School, Boston, MA

Hematopoietic Stem Cell Transplantation



Richard Childs, MD, RADM

Clinical Director, National Heart, Lung, and Blood
Institute (NHLBI),

Section Chief and Senior Investigator,

Laboratory of Transplantation Immunotherapy,

Rear Admiral, United States Public Health Service,

National Institutes of Health, Bethesda, MD

Nursing and Allied Health Symposium

Moderators: Donna M. Birhiray, OTR, MBA
Thalia Hammond



**Kristi Orbaugh, RN,
MSN, RNP, AOCN
Community Hospital
Oncology Physicians
Indianapolis, IN.**



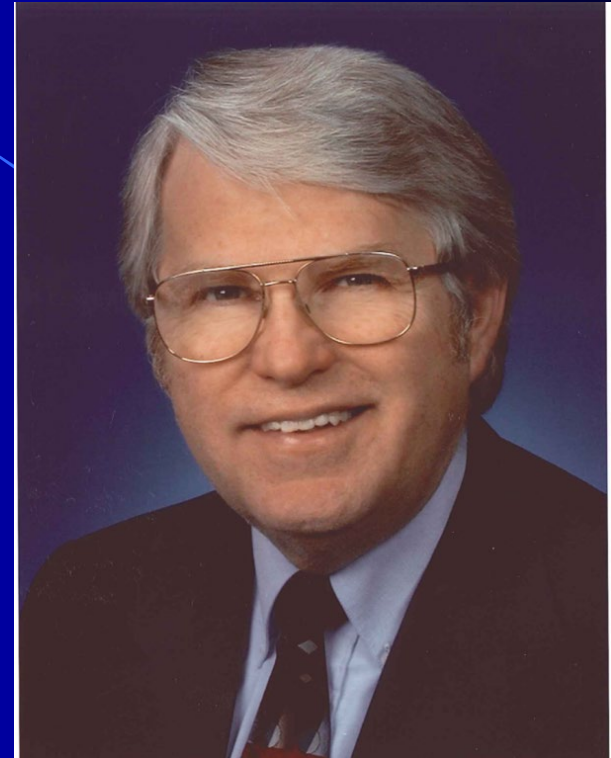
**David Reeves, PharmD,
BCOP
Associate Professor,
Butler University and
Clinical Pharmacist at
Franciscan Hospital,
Indianapolis, IN.**

T. Howard Lee Keynote Lecture



EDWARD A. STADMAUER, MD

Roseman, Tarte, Harrow, and Shaffer
Families' President's Distinguished Professor
of Medicine and Section Chief of the
Hematologic Malignancies
University of Pennsylvania Philadelphia, PA



T. HOWARD LEE, MD

Founder and
President Emeritus,
Hematology Oncology of Indiana,
PC
Indianapolis, IN

Hematologic Malignancies Town Hall



Irene Ghobrial, MD,
Professor and
Director of the Clinical
Investigator research program
at Dana-Farber Cancer
Institute, Harvard Medical
School, Boston, MA



Charles Schaffer MD,
Professor of Medicine and
Oncology and
The Joseph Dresner Chair for
Hematologic Malignancies at
Wayne State University School
of Medicine and the Karmanos
Cancer Institute
Detroit, MI



Morie Gertz, MD
Professor of the Art of
Medicine and Chair Emeritus
Department of Medicine,
Mayo Clinic,
Rochester, MN.

SAVE THIS DATE !

18th Annual Indy Hematology Review 2021

(<http://www.indyhematologyreview.com>)



March 20th, 2021

**Westin Indianapolis,
Indianapolis,
Indiana, 46204**



And The Winner is



Announcements and Acknowledgments

Indy Hematology Review

Organized by:



Achieving tomorrow's outcomes through education today.

Presented by:  **Community Health Network** in collaboration with  **MD Anderson Cancer Network**
A program of MD Anderson Cancer Center

References

1. Voorhees et al. ASH 2019. Abstr 691
2. Costa et al. ASH 2019, Abstr 860
3. Stege et al. ASH 2019, Abstr 695
4. Mateos. ASH 2019. Abstr 781.
5. Usmani et al. ASH 2019. Abstr LBA6
6. Madduri et al. ASH 2019. Abstr 577.
7. Wang et al. ASH 2019. Abstr 579.
8. Lonial S et al. Lancet Oncol. 2020 Feb;21(2):207-221
9. Nooka et al. ASCO Abstr 8502
10. Chen et al. ASH 2019. Abstr 141.
11. Bahlis. ASH 2019. Abstr 925.
12. Kumar. ASCO 2020. Abstr 8509
13. Costa. ASH 2019. Abstr 143.
14. Kaufman. ASH 2019. Abstr 926.
15. Sharman et al. ASH 2019. Abstr 31.
16. Jain et al. ASH 2019. Abstr 34.
17. Tam et al. ASH 2019. Abstr 35.
18. Lampson et al. ASH 2019. Abstr 32.
19. Mato et al. ASH 2019. Abstr 501.
20. Siddiqi et al. ASH 2019. Abstr 503.
21. Tam et al. ASH 2019. Abstr 499.
22. Hughes et al, N Engl J Med 2019; 381:2315-2326
23. Schuster et al. ASH 2019. Abstr 6.
24. Abramson et al. ASH 2019. Abstr 241
25. Wang et al. ASH 2019. Abstr 754
26. Mato et al. ASH 2019. Abstr 501.
27. Diefenbach et al. ASH 2019. Abstr 126.

References

28. Morshhauser et al. ASH2019, Abstr 123
29. Yasenchak et al. ASH 2019. Abstr 237.
30. Moskowitz AJ et al. ASH 2019. Abstr 238
31. Horwitz et al. ASH 2019. Abstr 466.
32. Tomowiak et al. ASH 2019. Abstr 346.
33. Wei et al. ASH 2019. Abstr LBA3.
34. Foran et al. ASH 2019. Abstr 115.
35. Aboudalle et al. ASH 2019. Abstr 176.
36. DiNardo et al. ASH 2019. Abstr 643.
37. Brown et al. ASH 2019. Abstr LBA-1
38. Chiaretti et al. ASH 2019. Abstr 740.
39. Lacayo. et al ASH 2019. Abstr 285.
40. Gerds et al. ASH 2019. Abstr 557.
41. Mascarenhas et al. ASH 2019. Abstr670.
42. Cluzeau et al. ASH 2019. Abstr 677.
43. Zeidan et al. ASH 2019. Abstr 565.
44. Fenaux et al. ASH 2019. Abstr 841.
45. Nagalla et al. ASH 2019. Abstr 1071
46. Kuter et al. ASH 2019. Abstr 87.
47. Lal et al. ASH 2019. Abstr 815.
48. Röth et al. ASH 2019. Abstr LBA-2.
49. Esrick et al. ASH 2019. Abstr LBA-5.
50. Onalo et al. ASH 2019, Abstr 613.
51. Al-Samkari et al. ASH 2019 ASH, Abstr 1060.
52. Munshi et al. ASH 2019, Abstr 782.
53. Hari et al. ASCO 2020. Abstr 8506.

References

54. Liu et al. N Engl J Med 2020; 382:545-553
55. Rogers et al. ASH 2019, Abstr 3518.
56. Hutchings et al. ASCO 2020. Abstr 8009.
57. Tam et al. ASCO 2020. Abstr 8007.
58. Kuruvilla et al. ASCO 2020. Abstr 8005.
59. Dimopoulos. ASCO 2020. Abstr 8501.
60. Kumar et al. ASCO 2020. Abstr LBA3.