

A wide-angle, high-angle aerial photograph of the Chicago skyline at night. The city is illuminated with warm yellow and orange lights, contrasting with the dark blue and black sky. The dense cluster of skyscrapers is visible, with the Willis Tower being a prominent feature in the center. The image has a slightly desaturated, artistic feel.

17TH INTERNATIONAL ULTMANN CHICAGO LYMPHOMA SYMPOSIUM

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chicagolymphoma.com

Relevant Disclosures

Genentech – Research Funding, Consulting

Celgene (BMS)– Research Funding, Consulting

Follicular Lymphoma: Treatment of Newly Diagnosed Disease

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Follicular Lymphoma

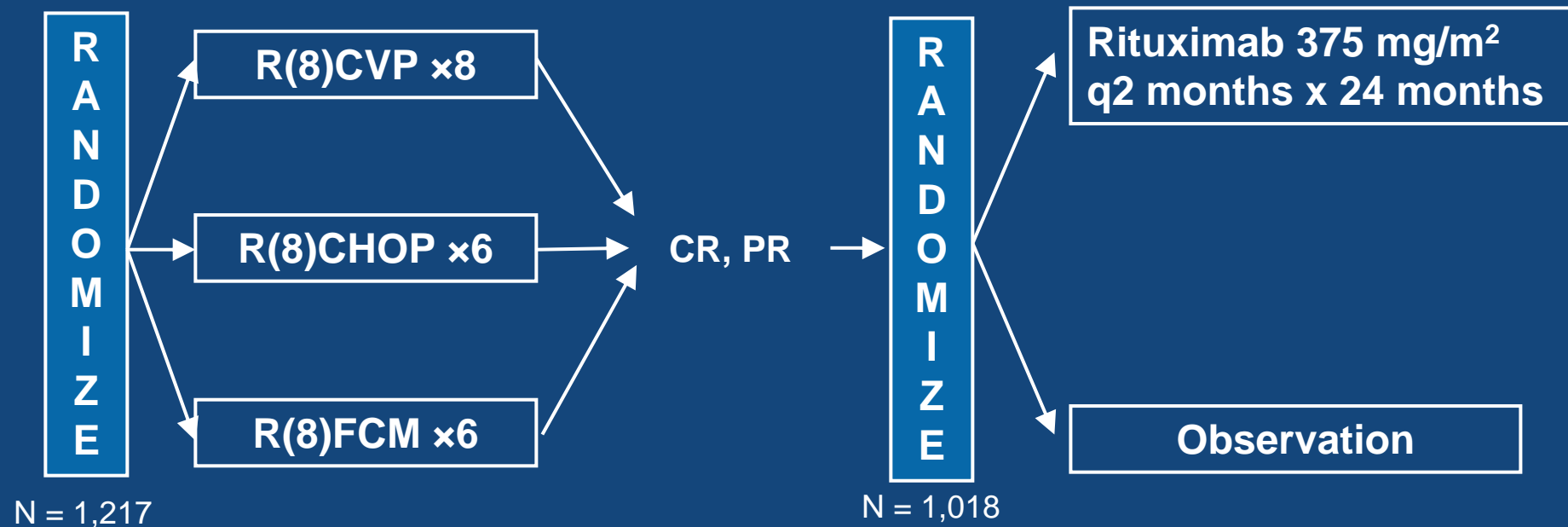
- Generally indolent disease.
- Watchful waiting/active surveillance initially appropriate for asymptomatic patients with low tumor burden.
- Common Indication for Treatment: GELF*Criteria:
 - Three nodes in three distinct areas, with each ≥ 3 cm
 - Tumor ≥ 7 cm
 - Symptomatic splenomegaly
 - Ascites or pleural effusion
 - Cytopenias
 - Leukemic phase disease (rare)

*GELF = Groupe d'Etude des Lymphomes Folliculaires

The PRIMA Trial

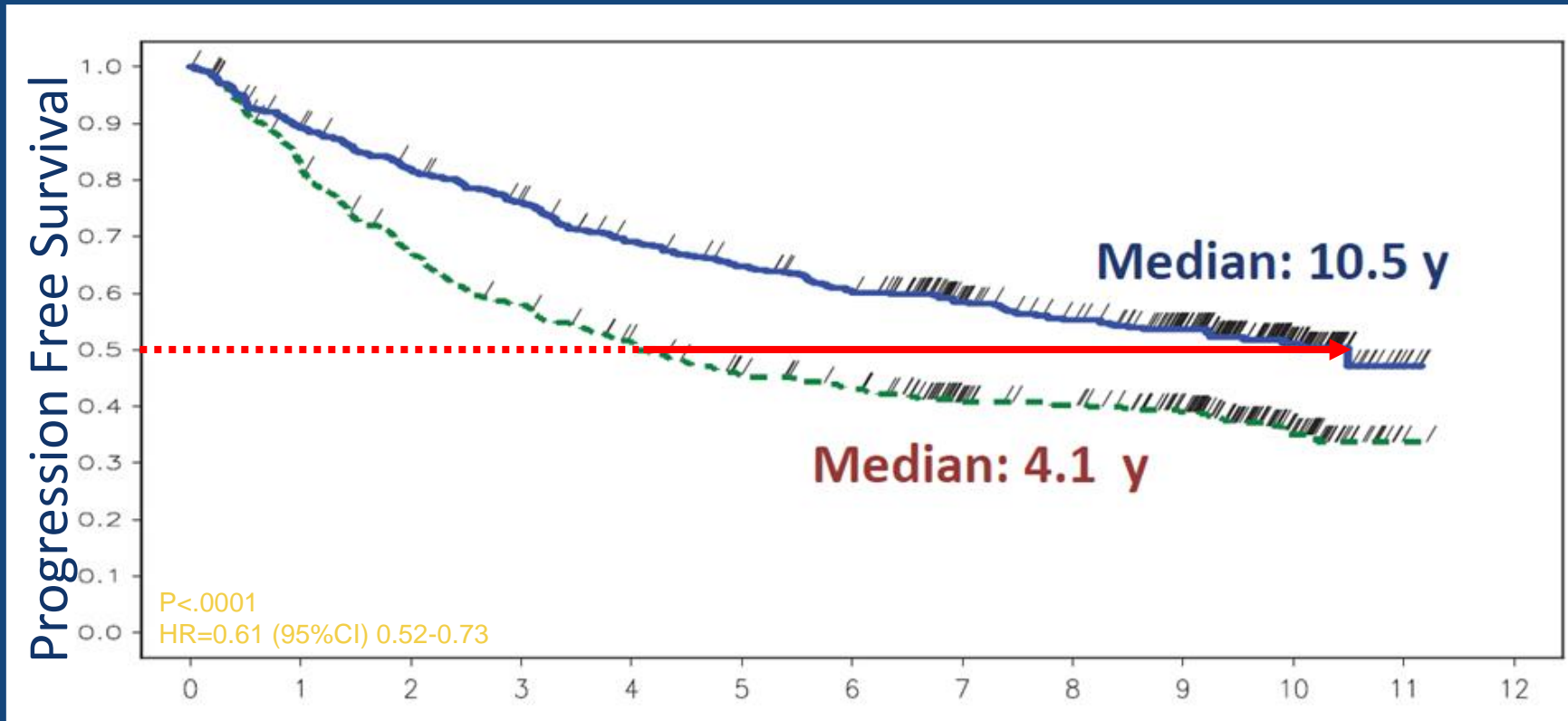
Study Design

- Previously untreated
- Grade 1, 2, 3a follicular lymphoma
- High tumor burden (GELF criteria)



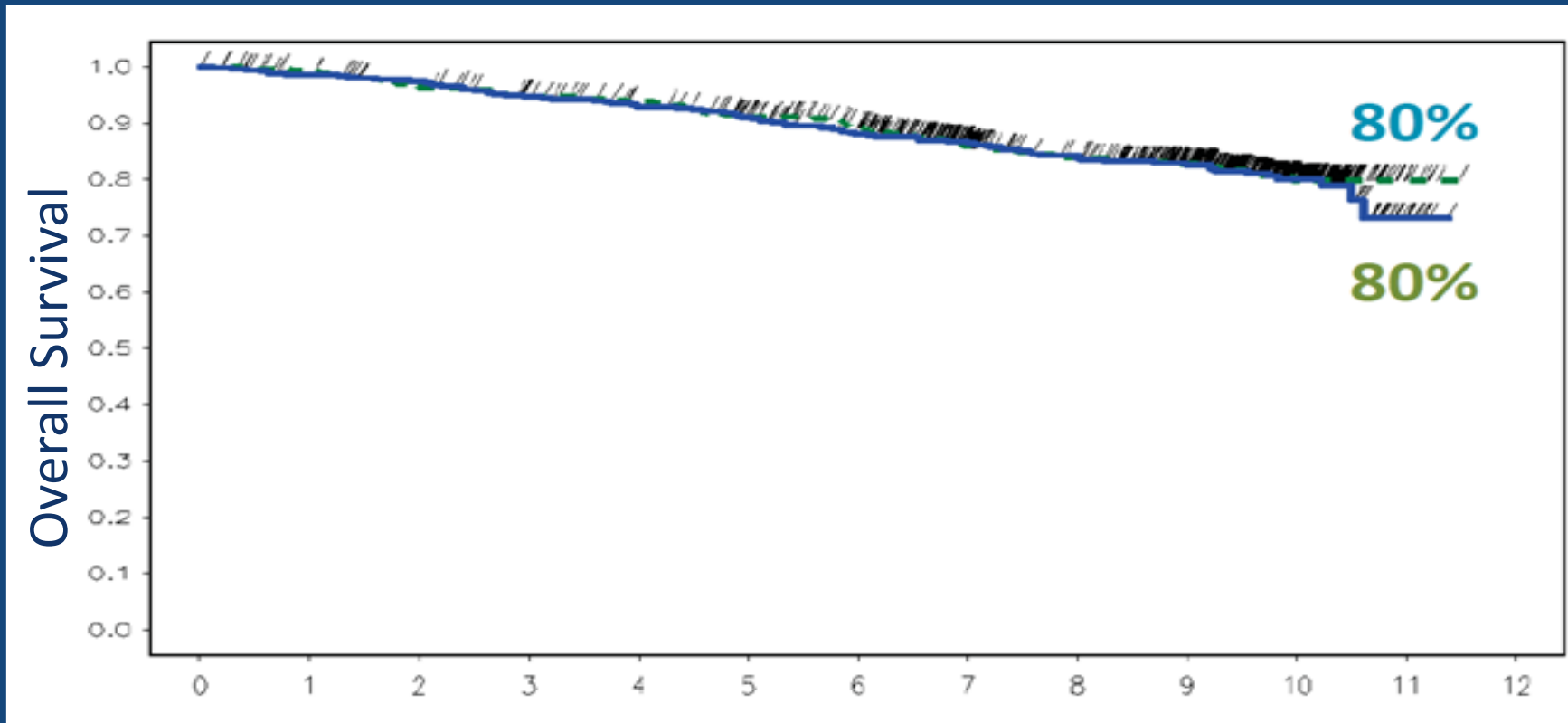
The PRIMA Trial

Long-Term Follow-up



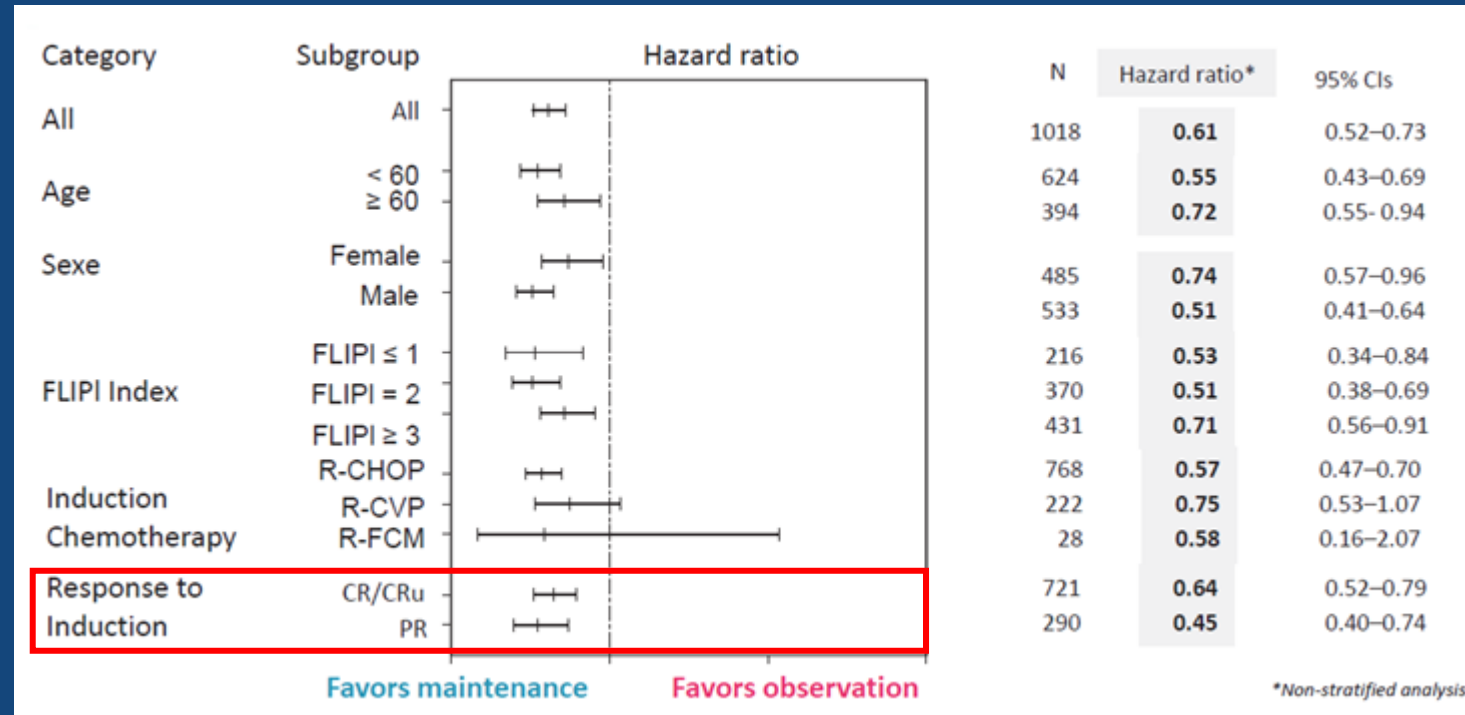
The PRIMA Trial

Long-Term Follow-up



The PRIMA Trial

Rituximab Maintenance in Major Subgroups



The PRIMA Trial

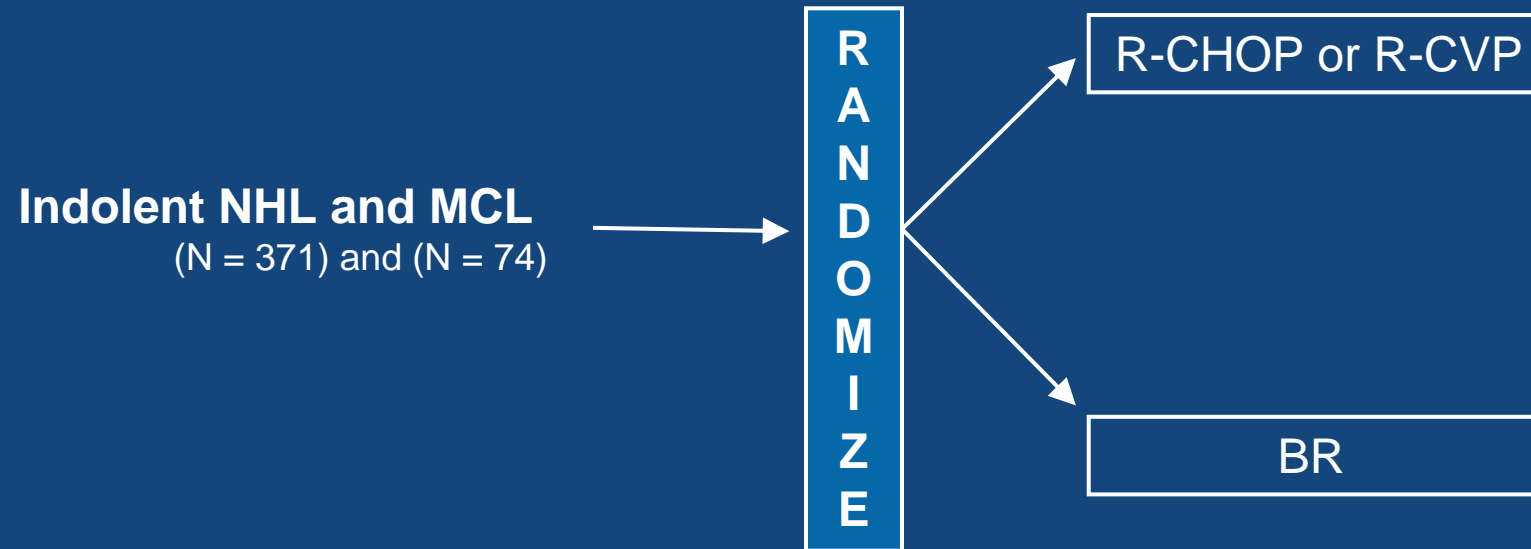
Rituximab Maintenance in Major Subgroups

Safety Parameter	Observation N = 508	Rituximab Maintenance N = 501
Adverse events (includes Grade 3–5 toxicities, Grade 2–5 infections, and serious AEs)	194 (38%)	285 (57%)
Grade 3/4 adverse events	86 (17%)	122 (24%) *
Serious adverse events	68 (13%)	106 (21%)
Total deaths	83 (16%)	84 (17%)
Grade 5 AEs	3 (<1%)	8 (2%)
* Difference essentially represented by neutropenia and infections		

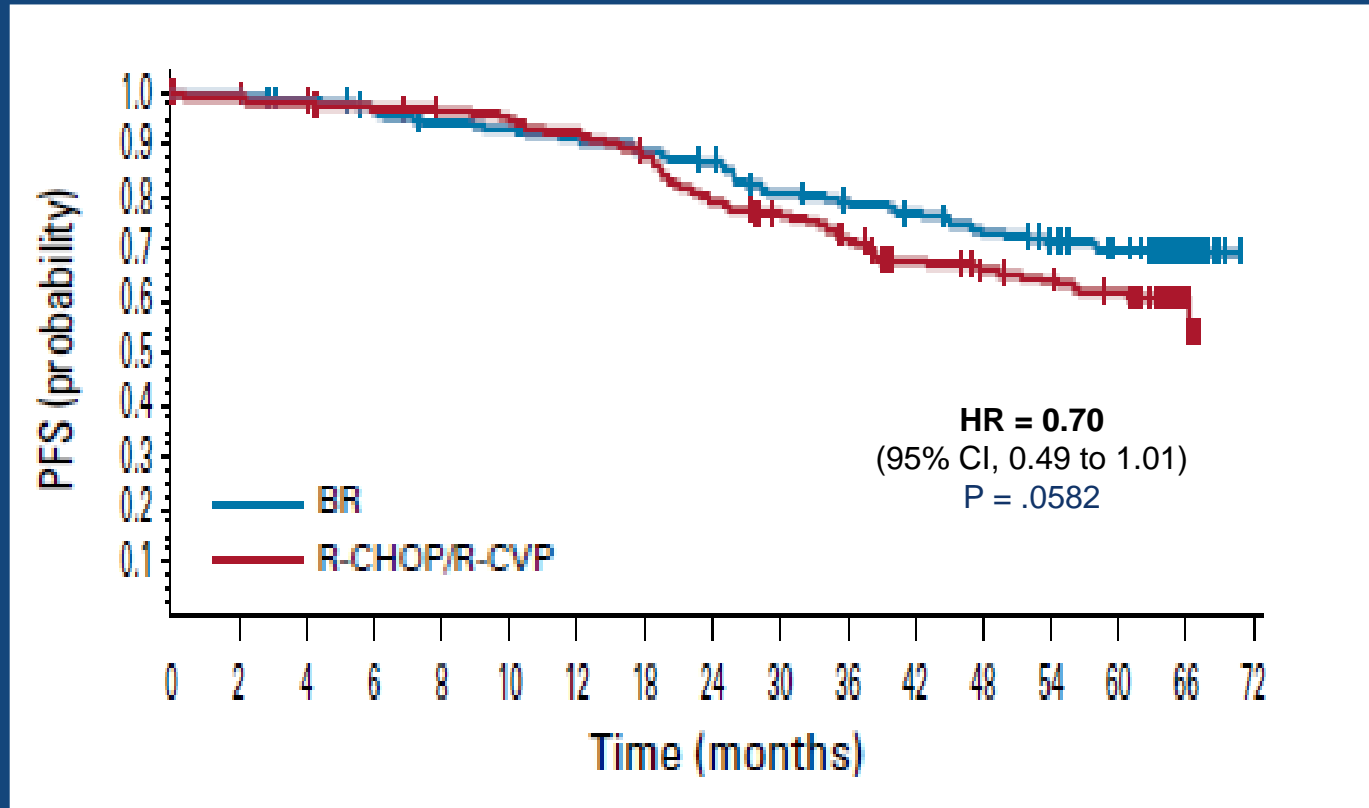


BRIGHT TRIAL:

R-CHOP/R-CVP vs. BR

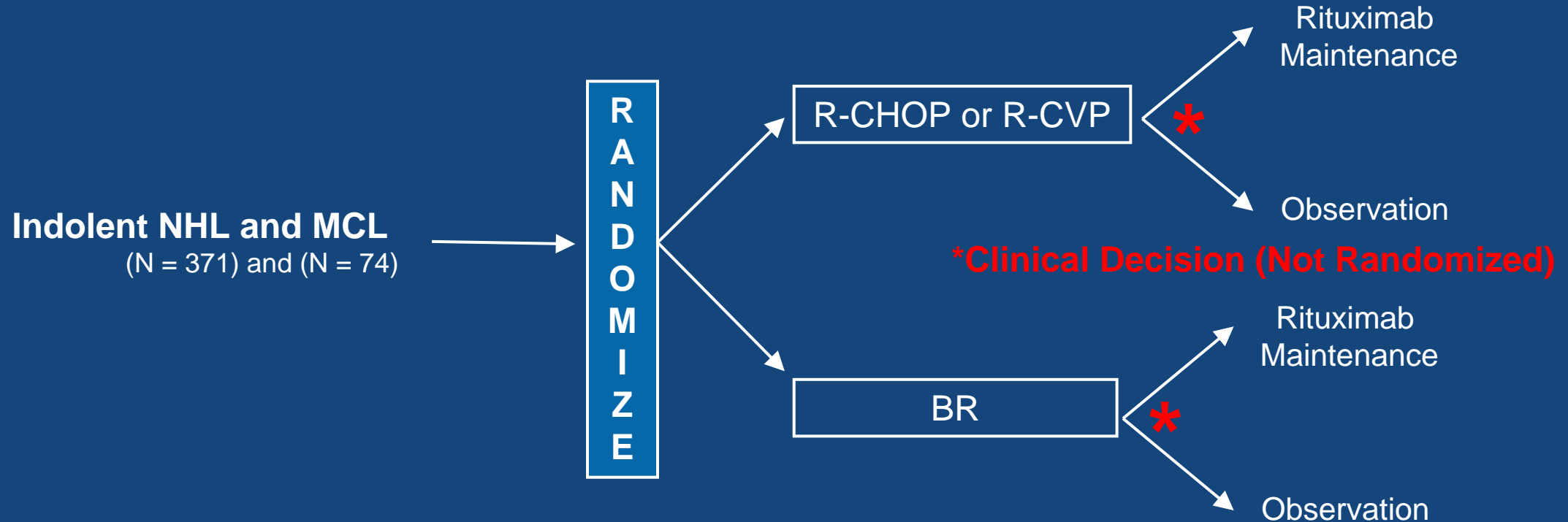


BRIGHT TRIAL: R-CHOP/R-CVP vs. BR



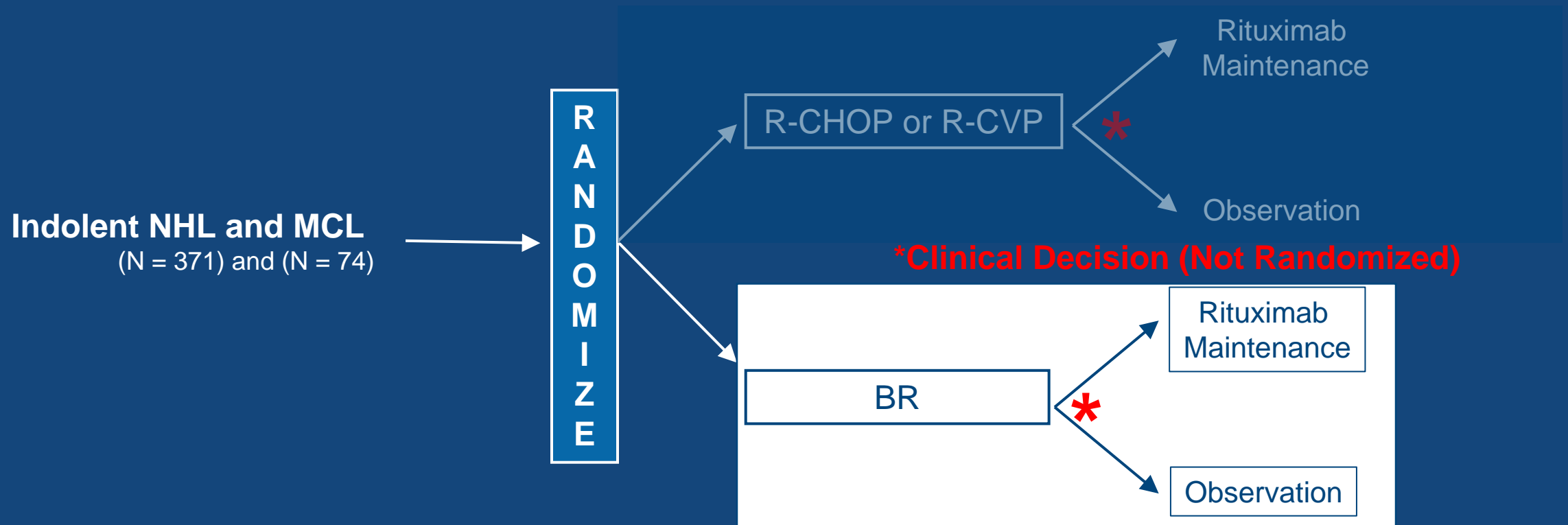
BRIGHT TRIAL:

R-CHOP/R-CVP vs. BR - Impact of Post-Study Treatment



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R-CHOP/R-CVP vs. BR - Impact of Post-Study Treatment



BRIGHT TRIAL:

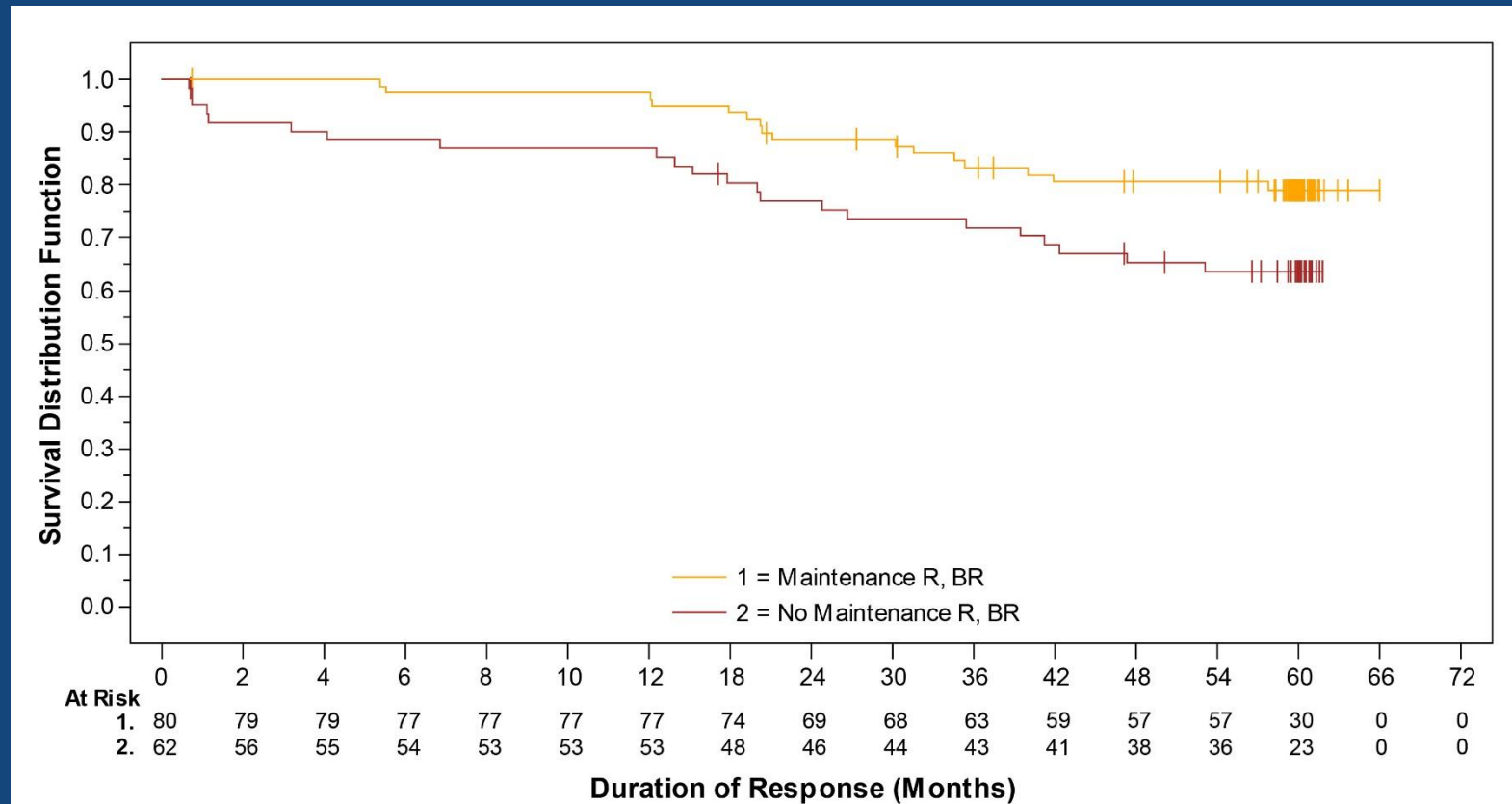
Adverse Events During Induction*

n (%)	BR (n = 144)	
	Maintenance R (n = 81)	No Maintenance R (n = 63)
Any adverse event	81 (100)	63 (100)
Grade ≥3 adverse event	48 (59)	35 (56)
Serious adverse events (SAEs)	19 (23)	20 (32)
SAEs occurring in >2 patients		
Febrile neutropenia	3 (4)	1 (2)
Neutropenia	3 (4)	0
Pyrexia	1 (1)	4 (6)
Pneumonia	1 (1)	3 (5)
SAEs of interest by SOC		
Infections and infestations	5 (6)	8 (13)
Secondary malignancies	0	1 (2)

*Adverse events were only collected during BR or R-CHOP/R-CVP study period, and not during maintenance therapy or long-term follow-up. Includes FL patients with CR or PR.

BRIGHT TRIAL:

Maintenance for FL Patients in CR or PR after BR induction



Real World Experience

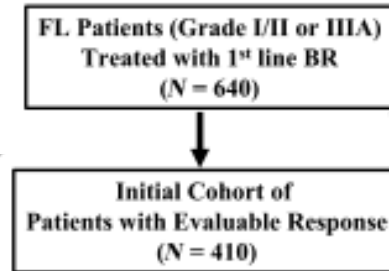
Maintenance Rituximab or Observation after Frontline Treatment with Bendamustine-Rituximab (BR) for Follicular Lymphoma

Brian T. Hill, MD, PhD Loretta Nastoupil, MD, Allison M. Winter, MD, Melody R Becnel, MD, James R. Cerhan, MD, PhD, Thomas M Habermann, MD, Brian K Link, MD, Matthew J Maurer, MS, Bita Fakhri, MD, MPH, Prathima Reddy, MD, Stephen D. Smith, MD, Dhruvika Mukhija, MD, Deepa Jagadeesh, MD, MPH, Amrita Desai, MD, Juan Pablo Alderuccio, MD, Izidore S Lossos, MD, Pooja Mehra, MD, Craig A. Portell, MD, Max L. Goldman, BA, Oscar Calzada, BS, Jonathon B Cohen, MD, MS, Mohammad Junaid Hussain, MD, Nilanjan Ghosh, MD, PhD, Paolo Caimi, MD, Timothy Tiutan, MD, Peter Martin, FRCPC, MD, MS, Abhigna Kodali, MD, Andrew M Evens, DO, MSc and Brad S Kahl, MD



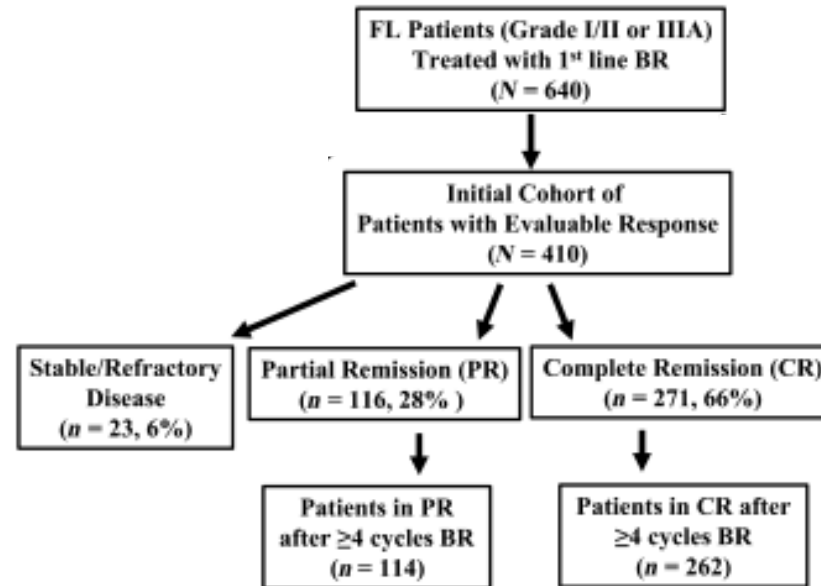
Real World Experience

Maintenance Rituximab or Observation after Frontline Treatment with Bendamustine-Rituximab (BR) for Follicular Lymphoma



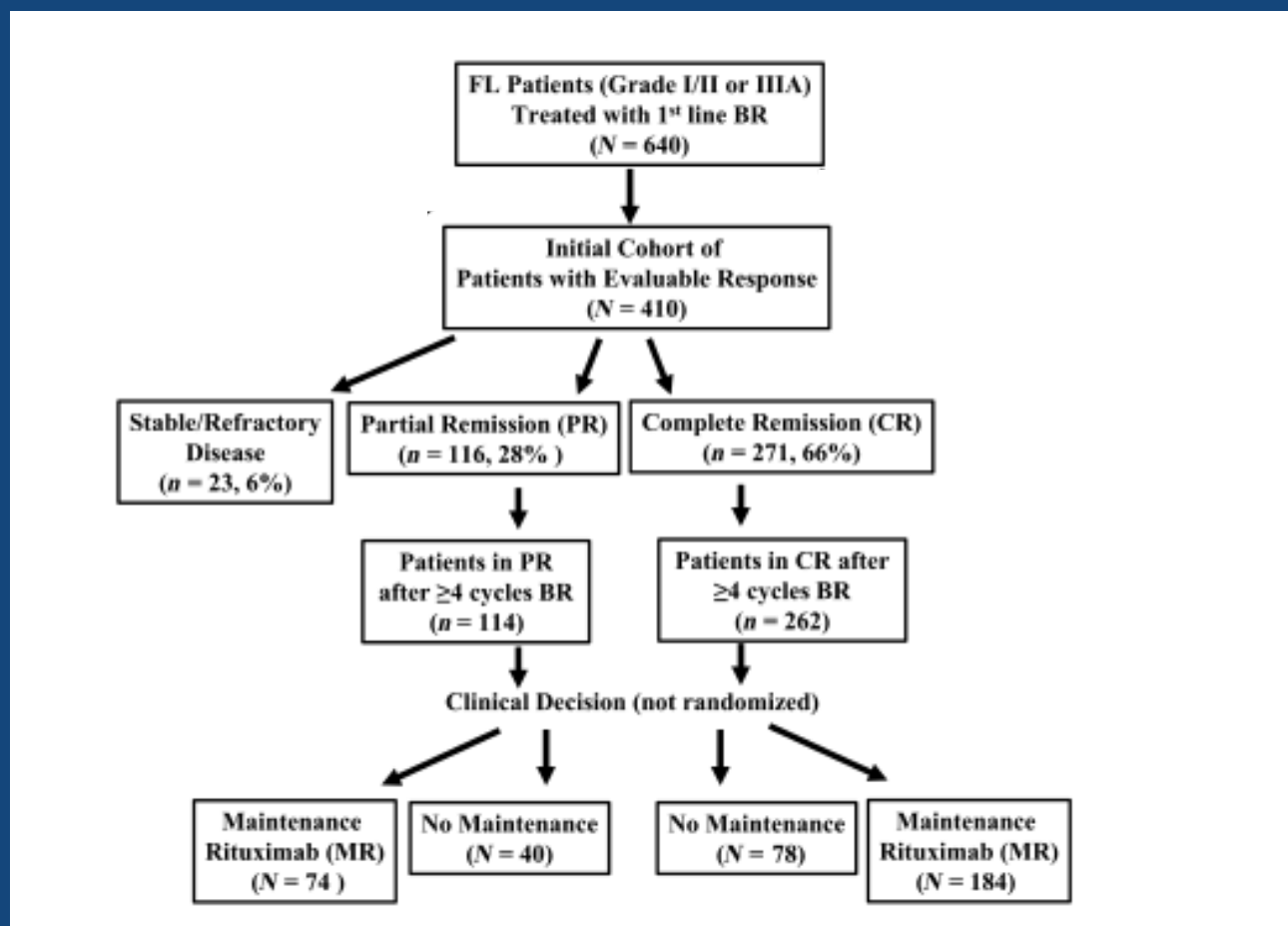
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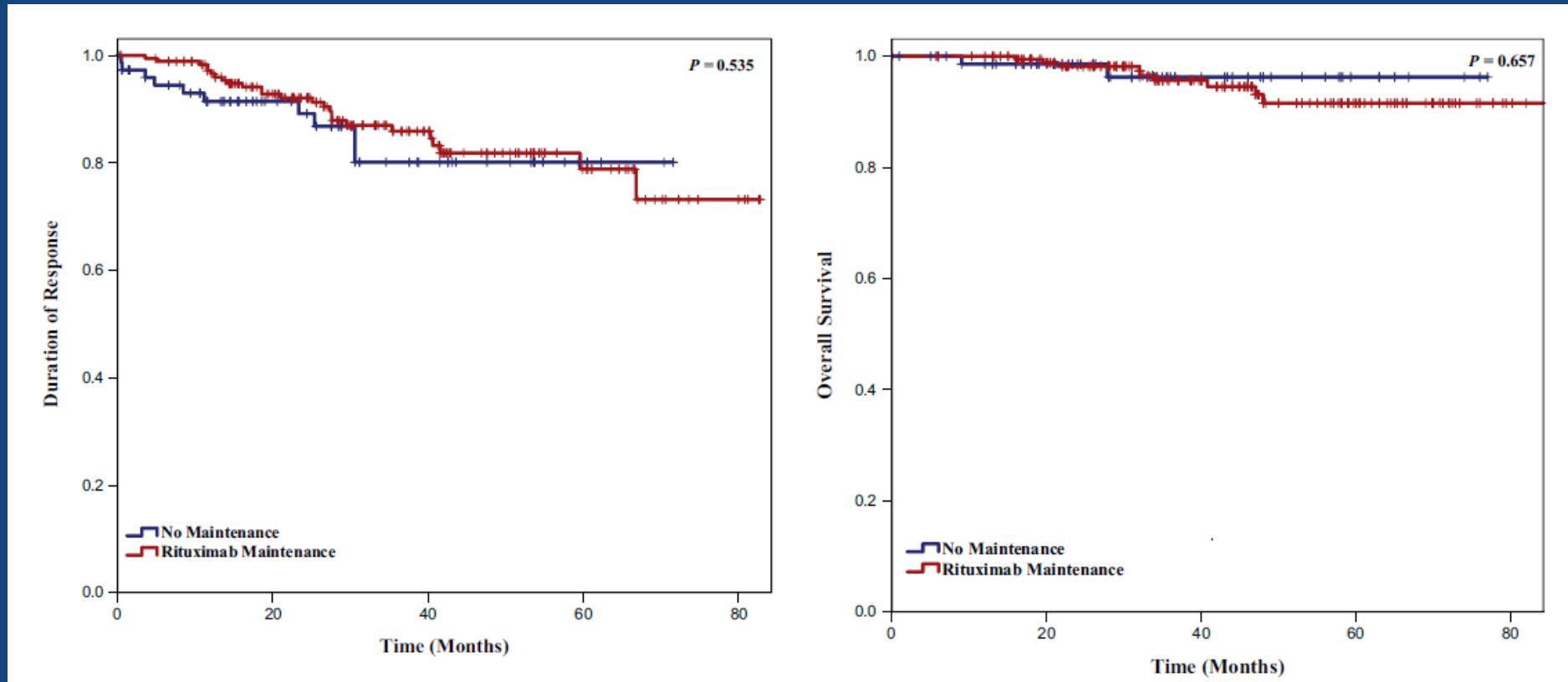
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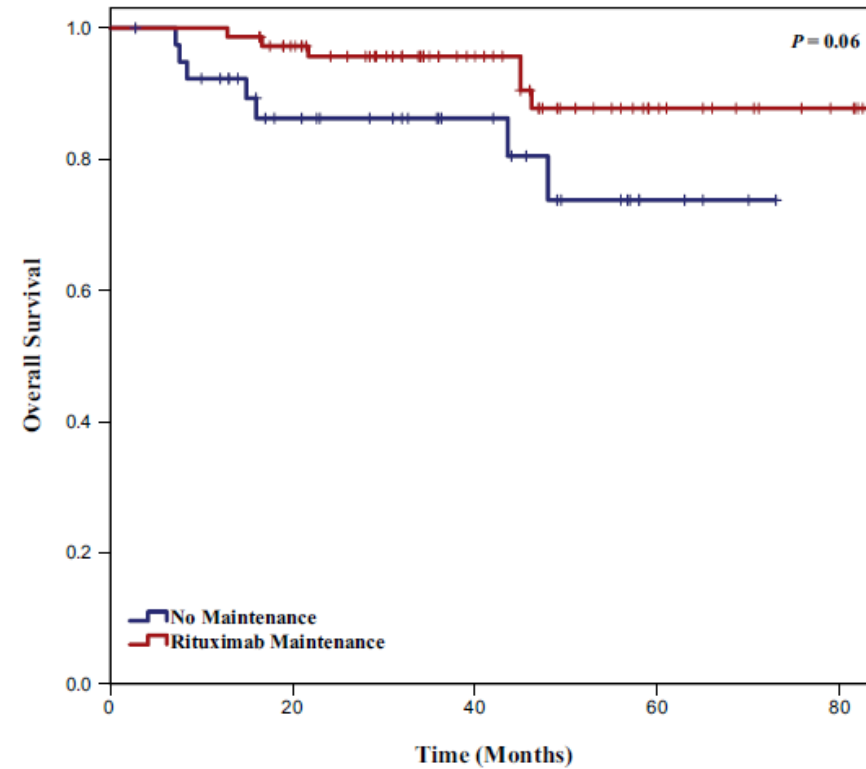
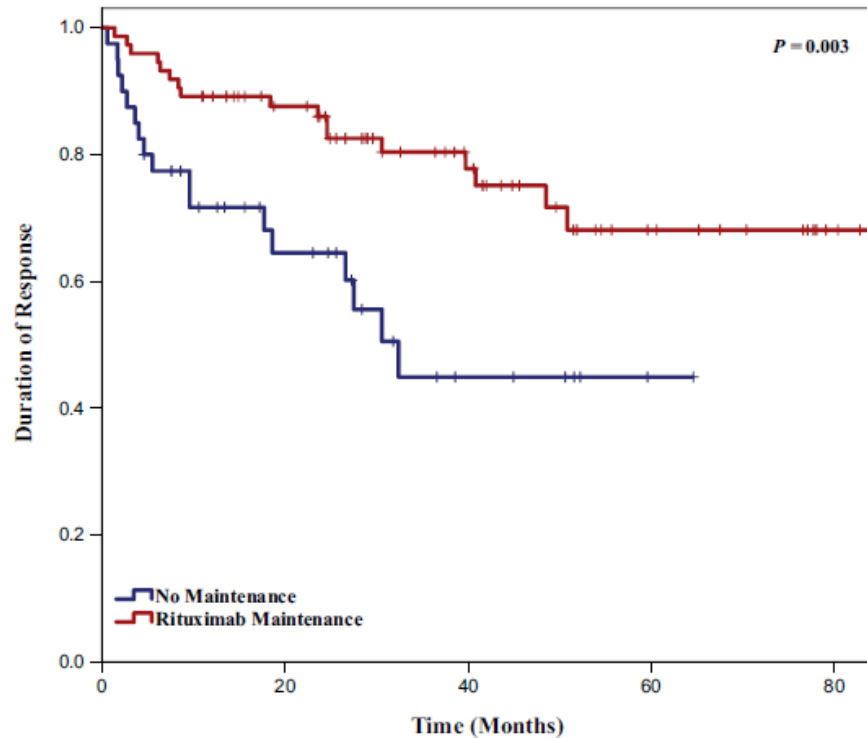
Real World Experience

No Benefit to Maintenance For Patients in Complete Remission (CR) after BR



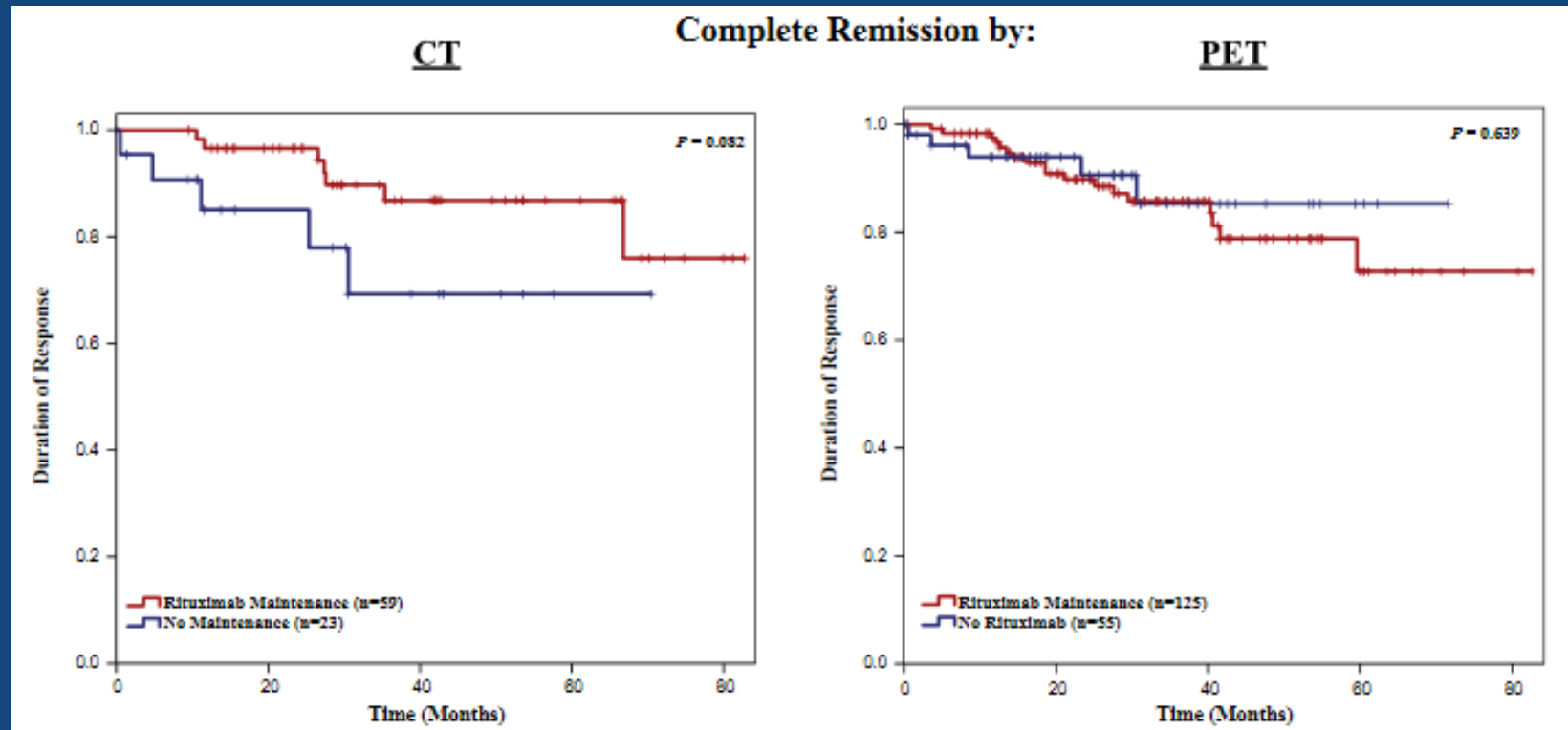
Real World Experience

PFS Benefit for Patients in Partial Remission (PR) after BR



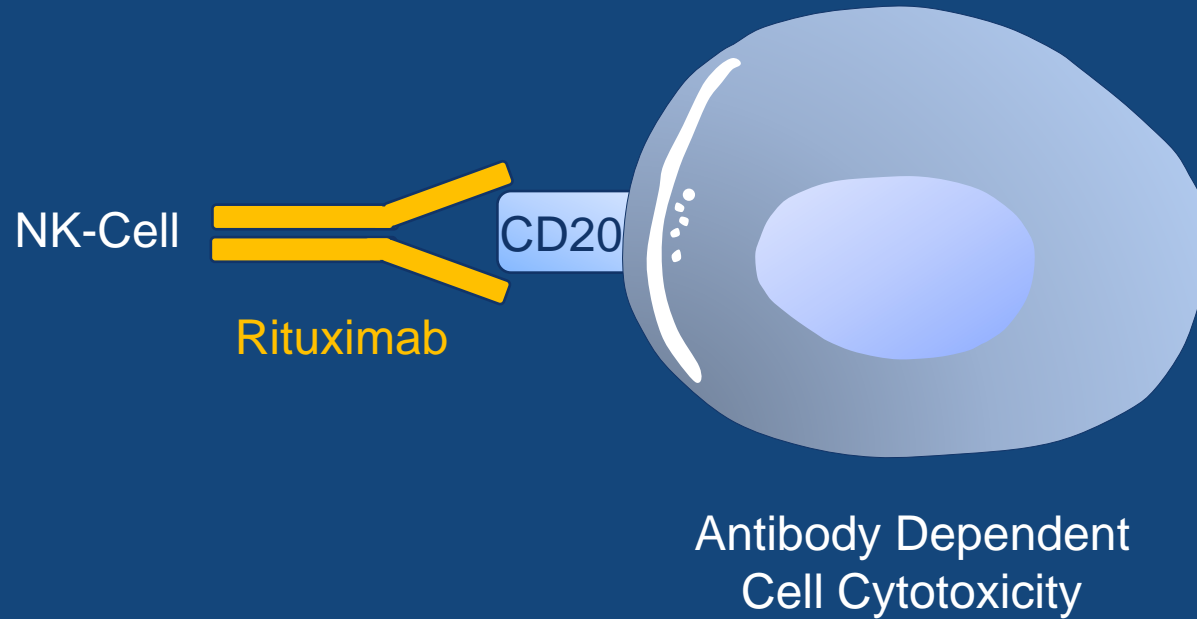
Real World Experience

Potential Role of PET for CR Patients not Likely to Benefit from Maintenance.



Role of anti-CD20 Monoclonal Antibody

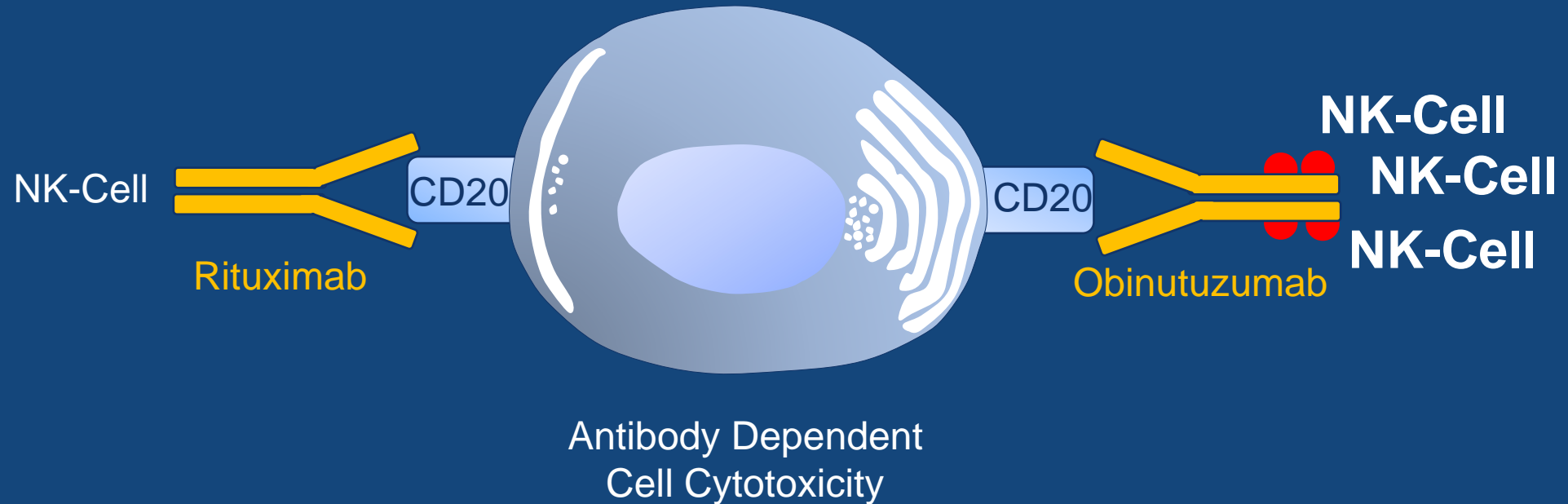
Obinituzumab – a more potent agent in FL?



 Glycosylation

Role of anti-CD20 Monoclonal Antibody

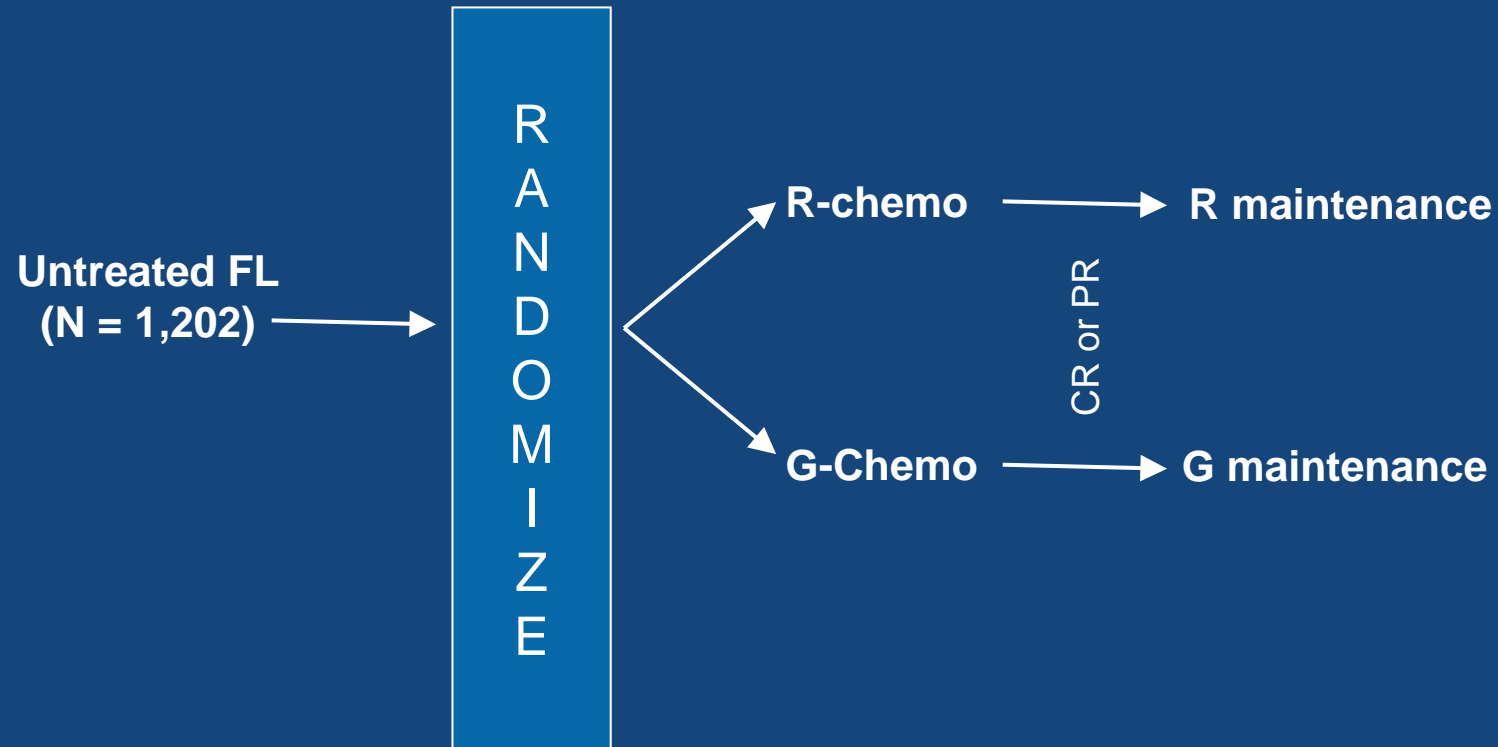
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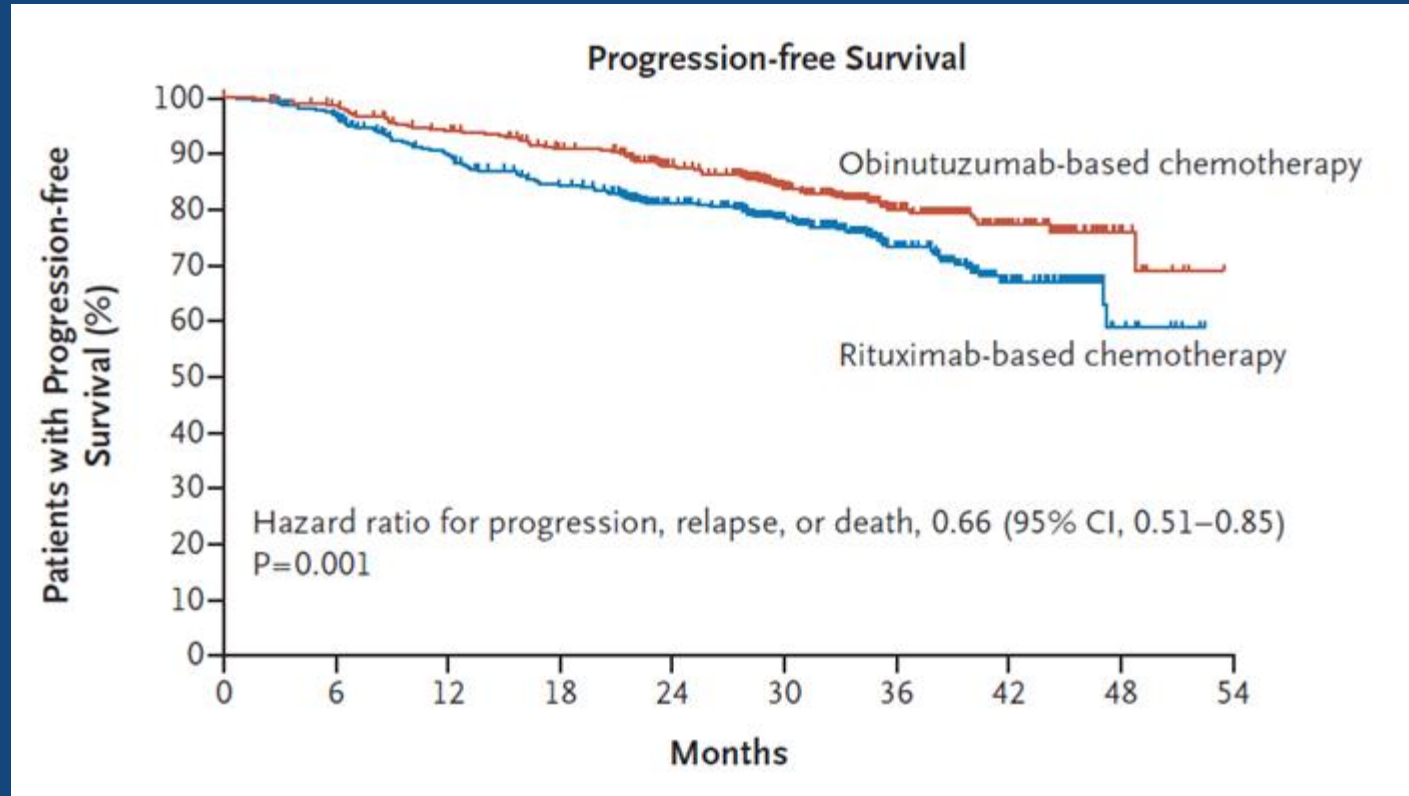
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Chemotherapy + Rituximab (R) vs. Obinutuzumab (G) for Untreated FL



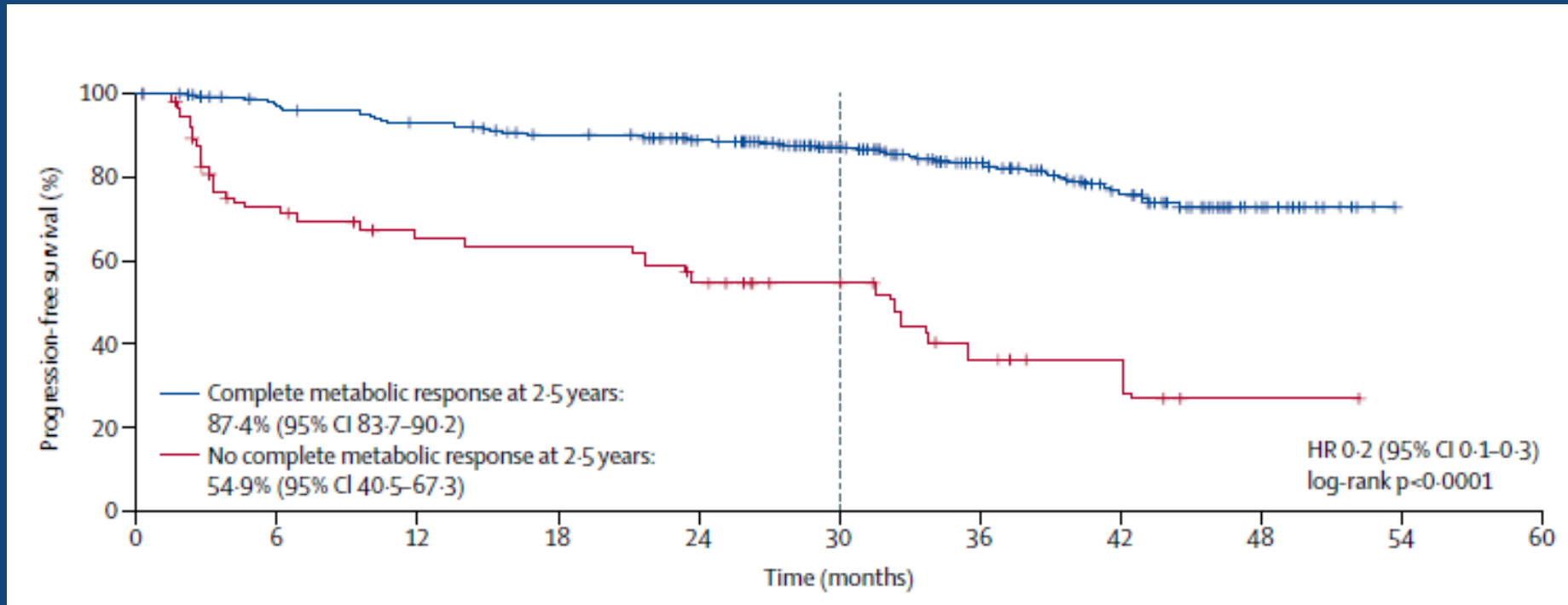
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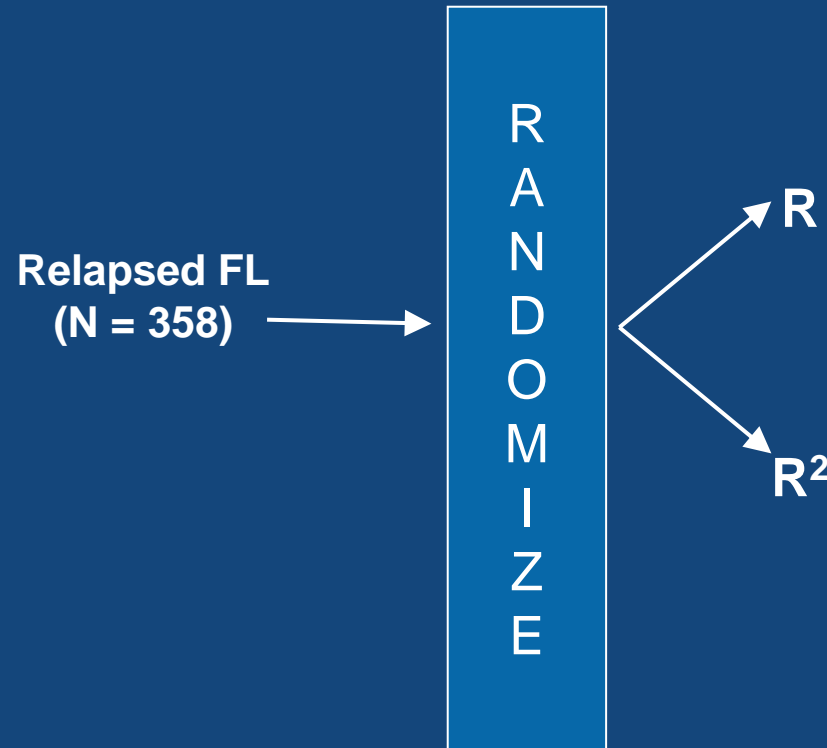
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Role of End-of-Treatment PET in Predicting PFS



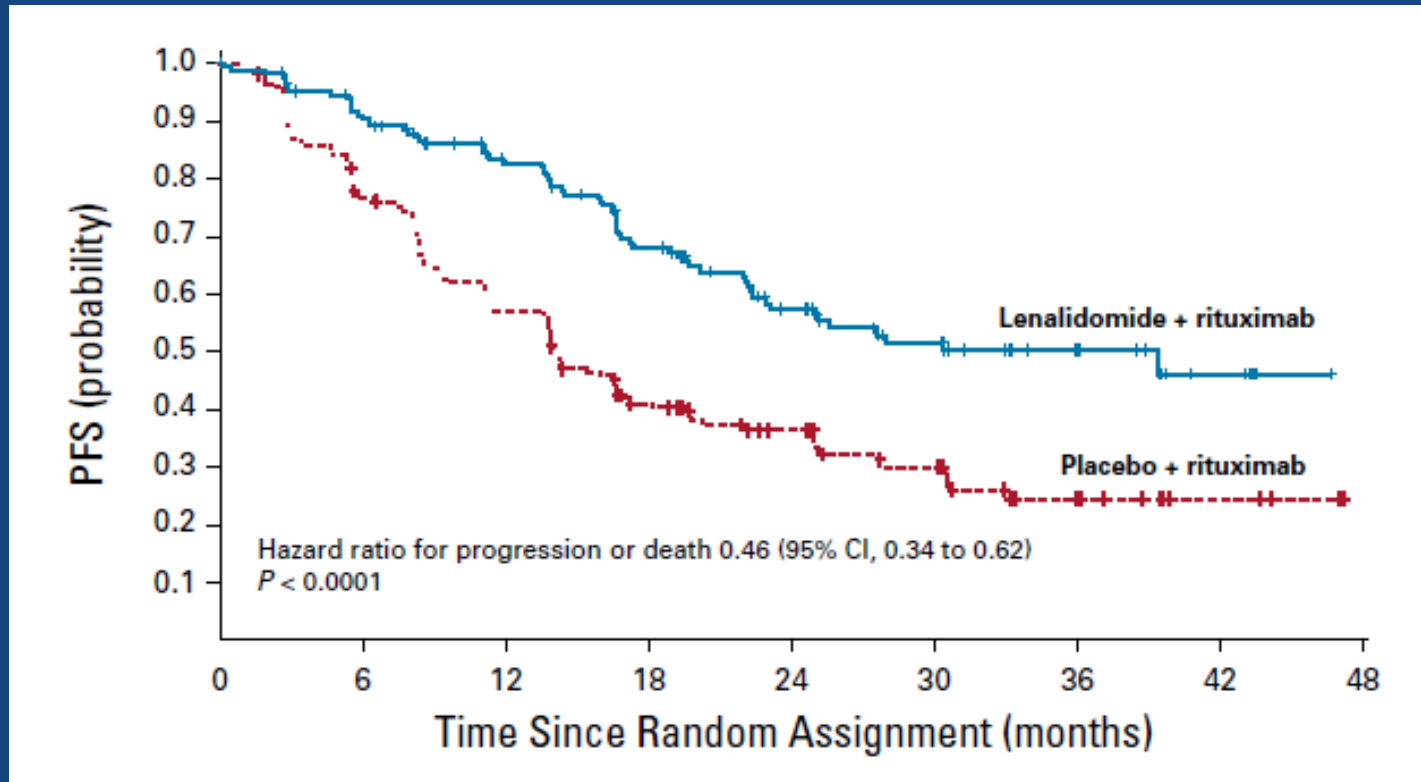
Maintenance Beyond anti-CD20 mAb

AUGMENT Trial: Rituximab (R) vs. Lenalidomide + R (R^2) for Relapsed FL



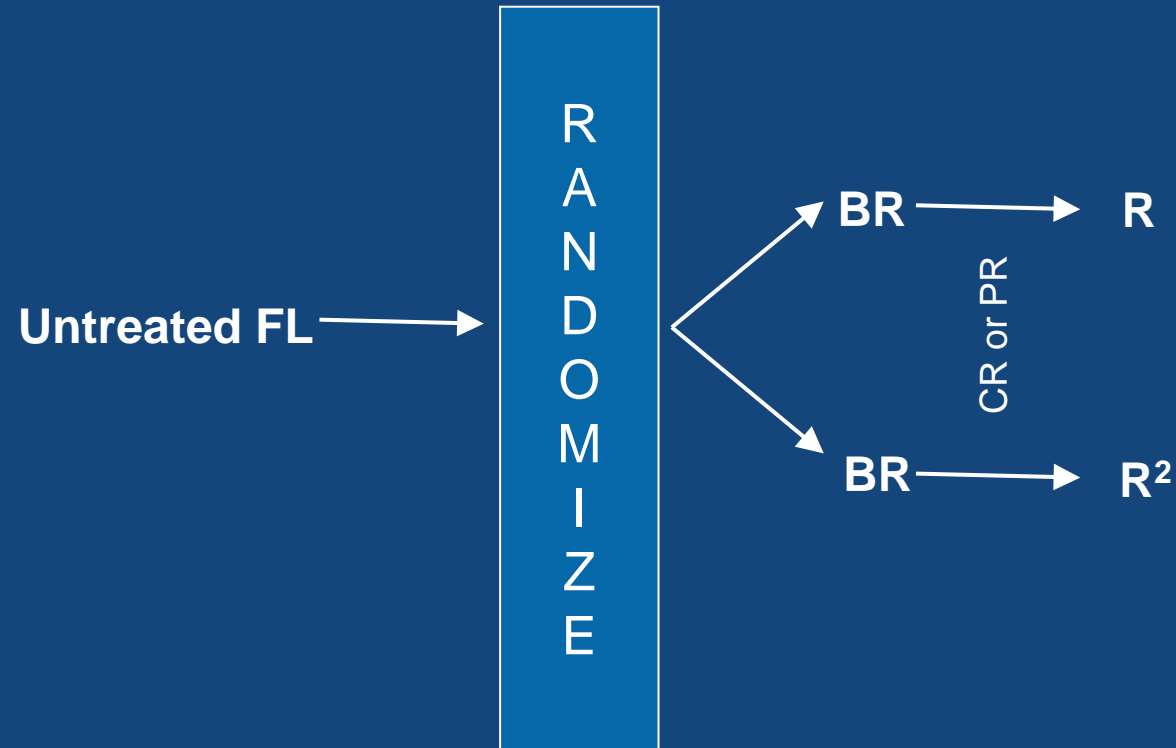
Maintenance Beyond anti-CD20 mAb

AUGMENT Trial: Rituximab (R) vs. Lenalidomide + R (R²) for Relapsed FL



Maintenance Beyond anti-CD20 mAb

E2408 Trial: R vs. R² after BR for frontline FL



*3rd arm: BR + Bortezomib followed by R

Summary

- PRIMA study showed similar benefit to maintenance therapy for all patients responding to R-CHOP, but no randomized prospective trials address role of maintenance after BR.
- Post-hoc analysis of BRIGHT and Real World Experience Data suggest improvement in PFS with maintenance after BR, possibly restricted for patients with < complete remission.
- PET scan is a powerful predictor of PFS at end-of-induction after chemoimmunotherapy.
- Obinutuzumab improves proportion of PET negativity vs. rituximab.
- Addition of lenalidomide to R (R^2) improves PFS in relapsed FL. Data for R^2 after frontline chemoimmunotherapy with BR are expected soon.