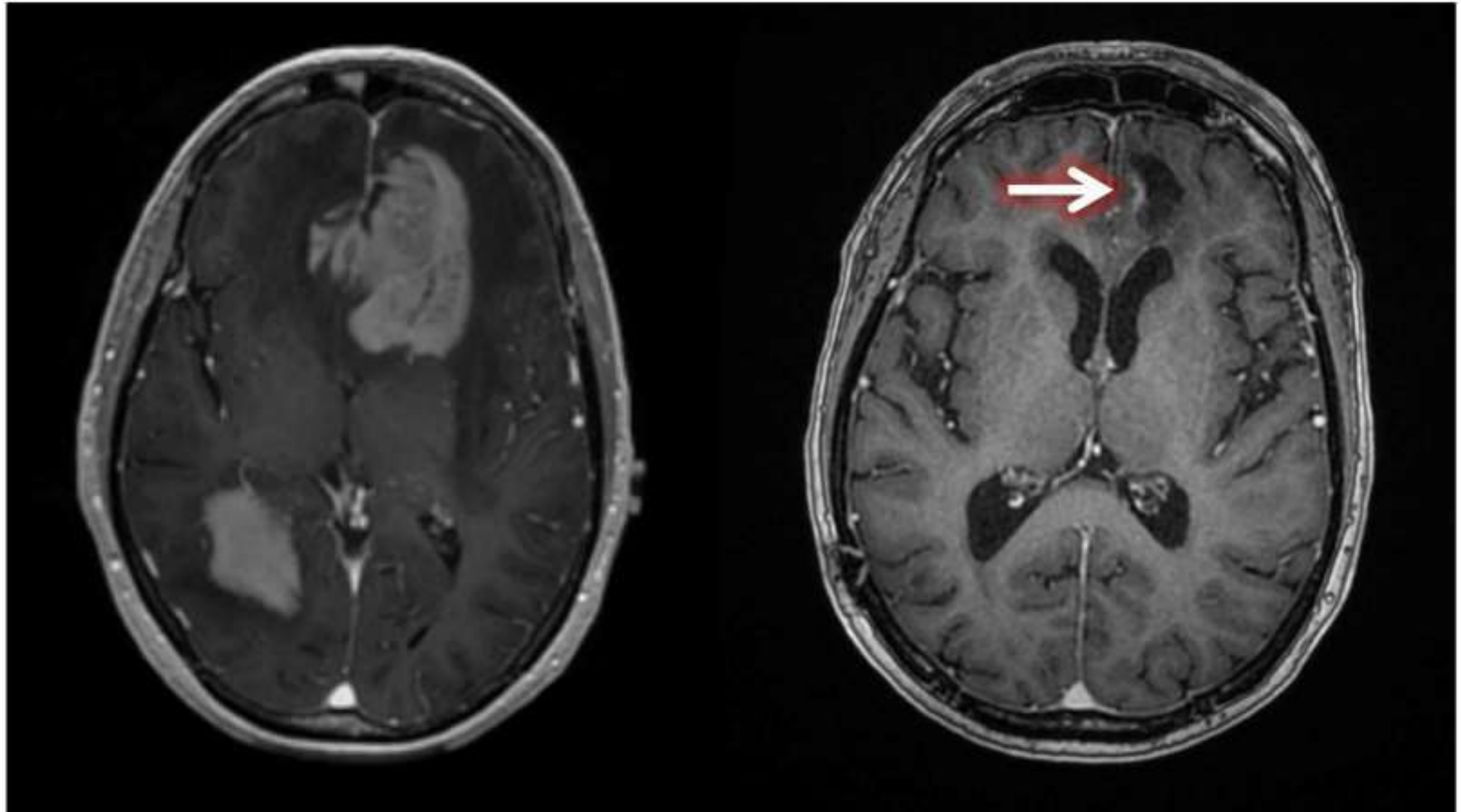


# **Understanding the Role of Autologous Transplant and Consolidation Strategies: Opinions and Options**

James Rubenstein, M.D., Ph.D.

- I receive research support from Celgene and Genentech
- I will discuss investigational uses of lenalidomide, pomalidomide.

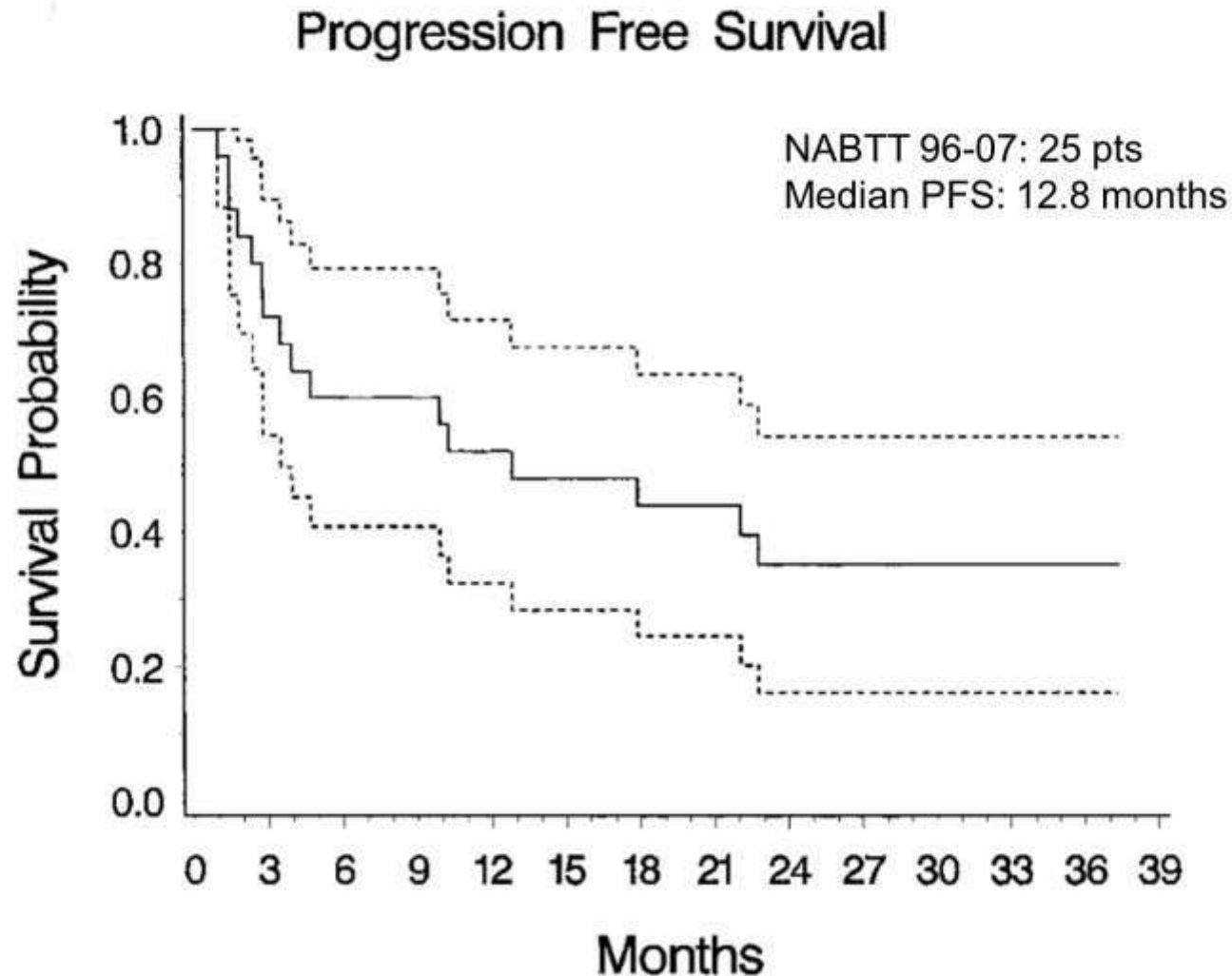
# Primary CNS Lymphoma: Response to Induction



**At Diagnosis**

**After MT-R Induction**

# High Dose-MTX Monotherapy in PCNSL



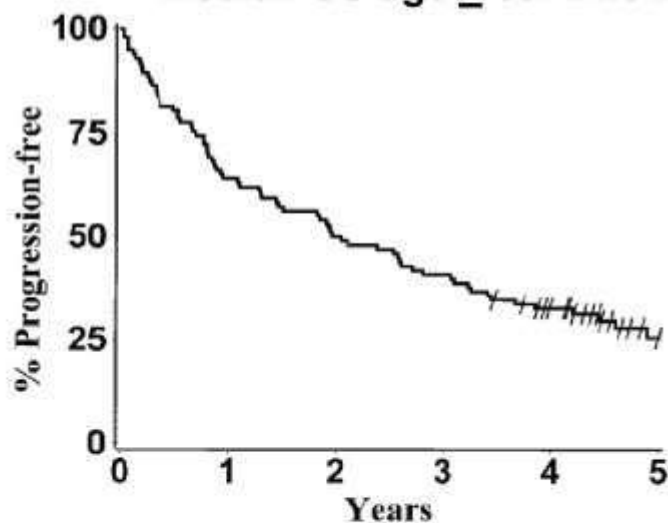
# Consolidation Strategies in PCNSL

- **Whole Brain Radiotherapy**
  - Standard Dose
  - Reduced Dose
- **High-Dose Chemotherapy**
  - Myeloablative (ASCT)
  - Non-Myeloablative

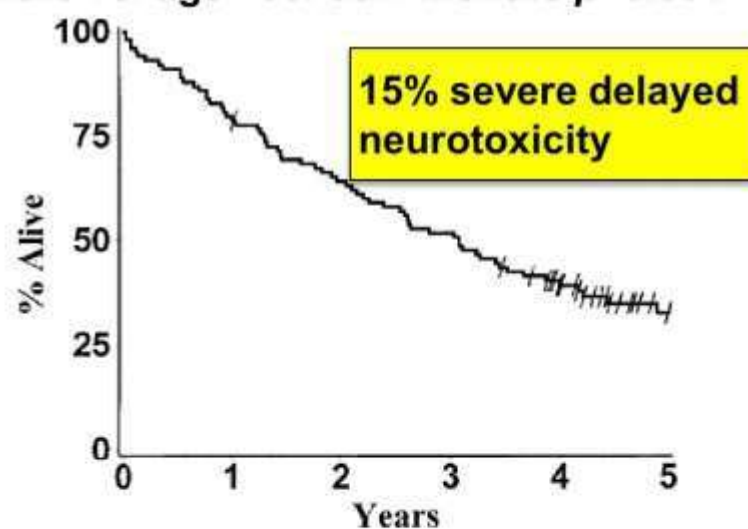
# Combined Modality Therapy: RTOG 9310

- HD-MTX + IT-MTX
- Procarbazine
- Vincristine
- WBRT Consolidation

Median OS age  $\geq 60$ : 21.8 months vs. age  $<60$ : 50.4 months  $p < 0.001$



Progression-free survival for all patients.



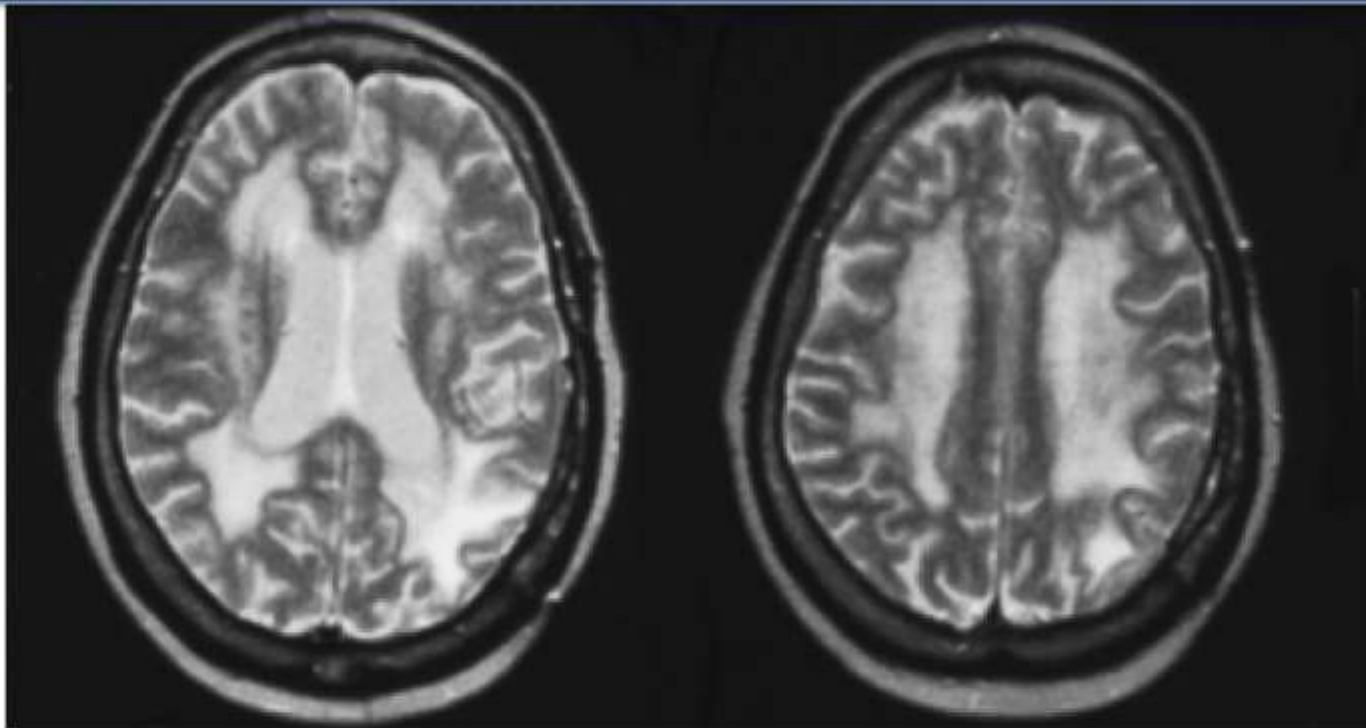
Overall survival for all patients.

Median PFS = 24 months  
102 patients

DeAngelis et al., J Clin Oncol 2002



# WBXRT Toxicity



**Encephalopathy: Memory Deficits, Apathy, Decreased Concentration, Urinary Incontinence and Gait Disturbance**

# High Dose Chemotherapy Strategies in PCNSL

- Cytoxan/BCNU/VP16 (CBV)
- BCNU/VP16/Ara-C/Melphalan (BEAM)
- Thiotepa/Busulfan/Cytosine (TBC)
- BCNU/Thiotepa
- VP16/Ara-C (EA) **Non-Myeloablative**



# Randomized Control Trials Comparing WBXRT vs. ASCT as Consolidation in PCNSL

| Study               | PRECIS                 | IELSG 32                        |
|---------------------|------------------------|---------------------------------|
| Centers             | France                 | Italy, Germany, UK, Switzerland |
| Eligibility         | Age $\leq 60$          | Age $\leq 65$                   |
| WBRT                | 40 Gy                  | 36 Gy if $\geq$ SD; 40 Gy if PD |
| Preparative Regimen | Thiotepa, Busulfan, Cy | BCNU/Thiotepa                   |

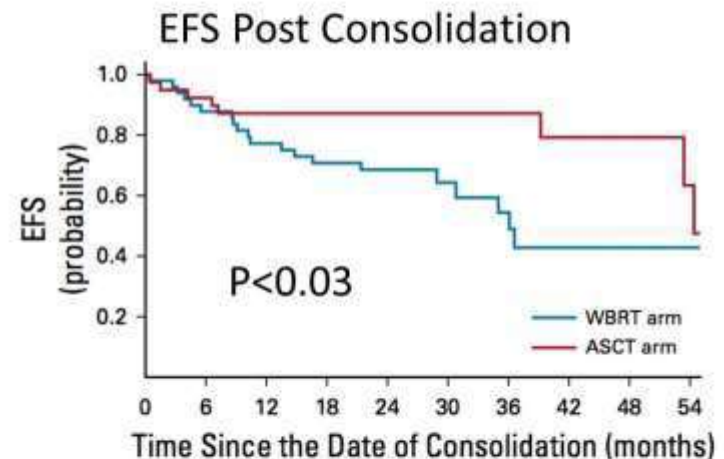
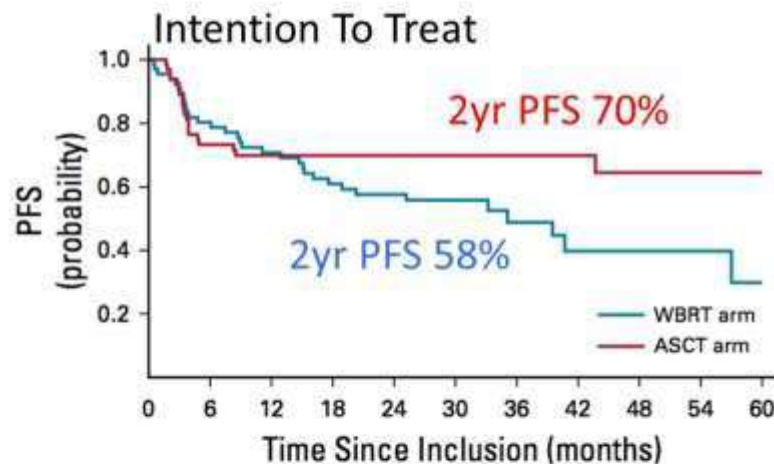
# PRECIS: Randomized Phase II: WBRT vs. ASCT

140 pts, median age 55

Induction: R-MBVP Induction (rituximab/MTX/BCNU/Prednisone)

Consolidation independent of response: TBC Preparative regimen vs. 40 Gy WBXRT

Primary Endpoint: 2-yr PFS

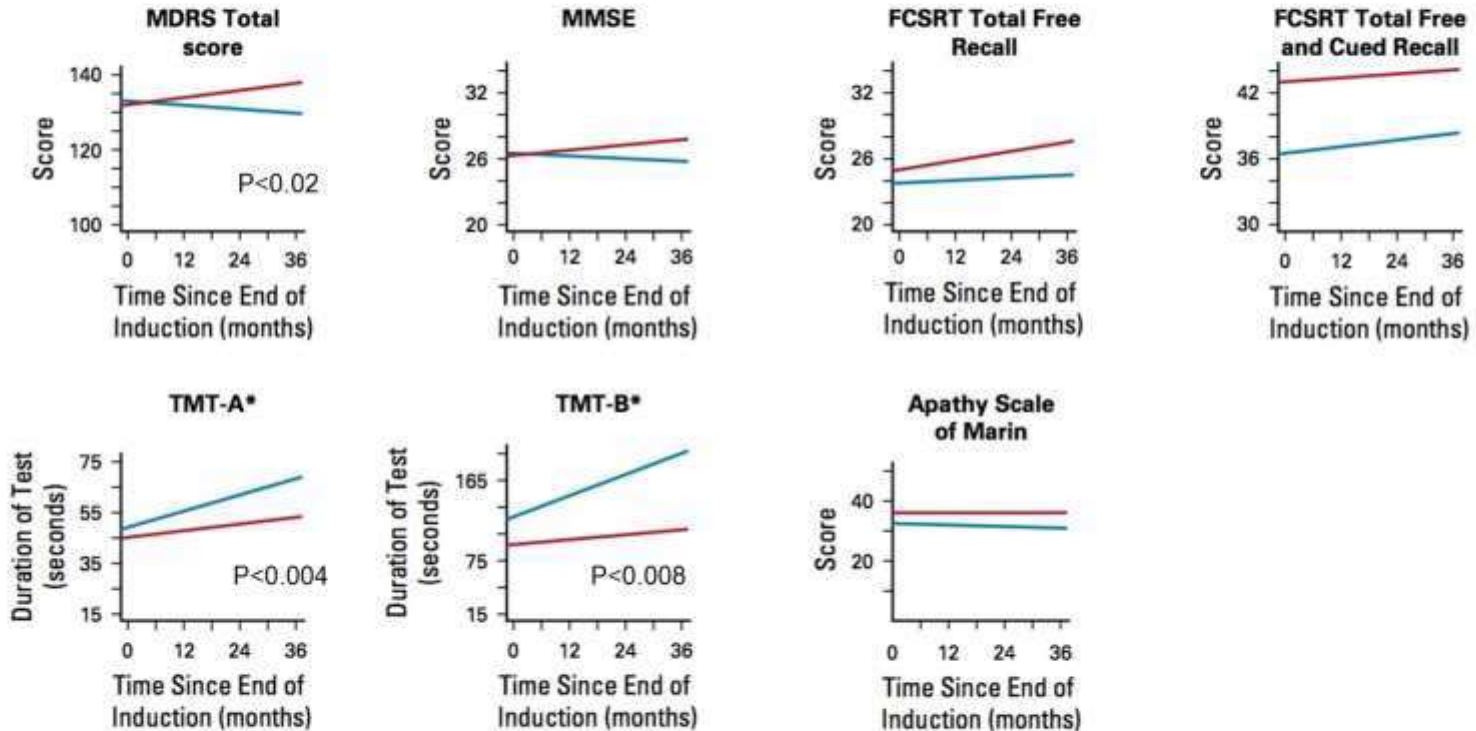


Median Follow-up 33.5 months

Houillier et al. J. Clinical Oncology 2019

**11% TRM with TBC**

# PRECIS: Exploratory Neurocognitive Analysis



**After WBXRT > 50% pts-> decline in test scores**  
**After ASCT >50% pts->improvement in test scores**

**ASCT=red**  
**WBRT=blue**

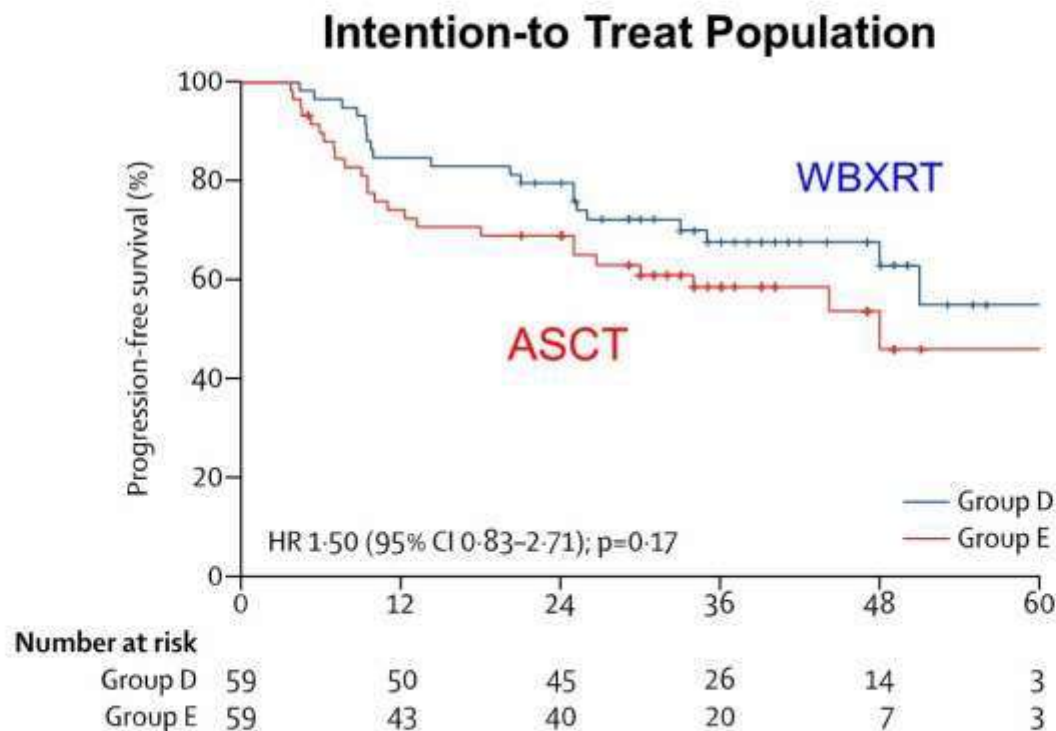
# Conclusions of IELSG32 Second Randomization

122 pts median age 58: eligible for second randomization:

227 pts enrolled Induction: MATRix vs. MTX + Ara-C vs. R-MTX + Ara-C

Consolidation – CR, PR or SD: BCNU/TT Preparative regimen vs. 36 Gy (+ 9 GY boost) WBXRT

Primary Endpoint: 2-yr PFS



**No difference in  
2 yrs PFS**

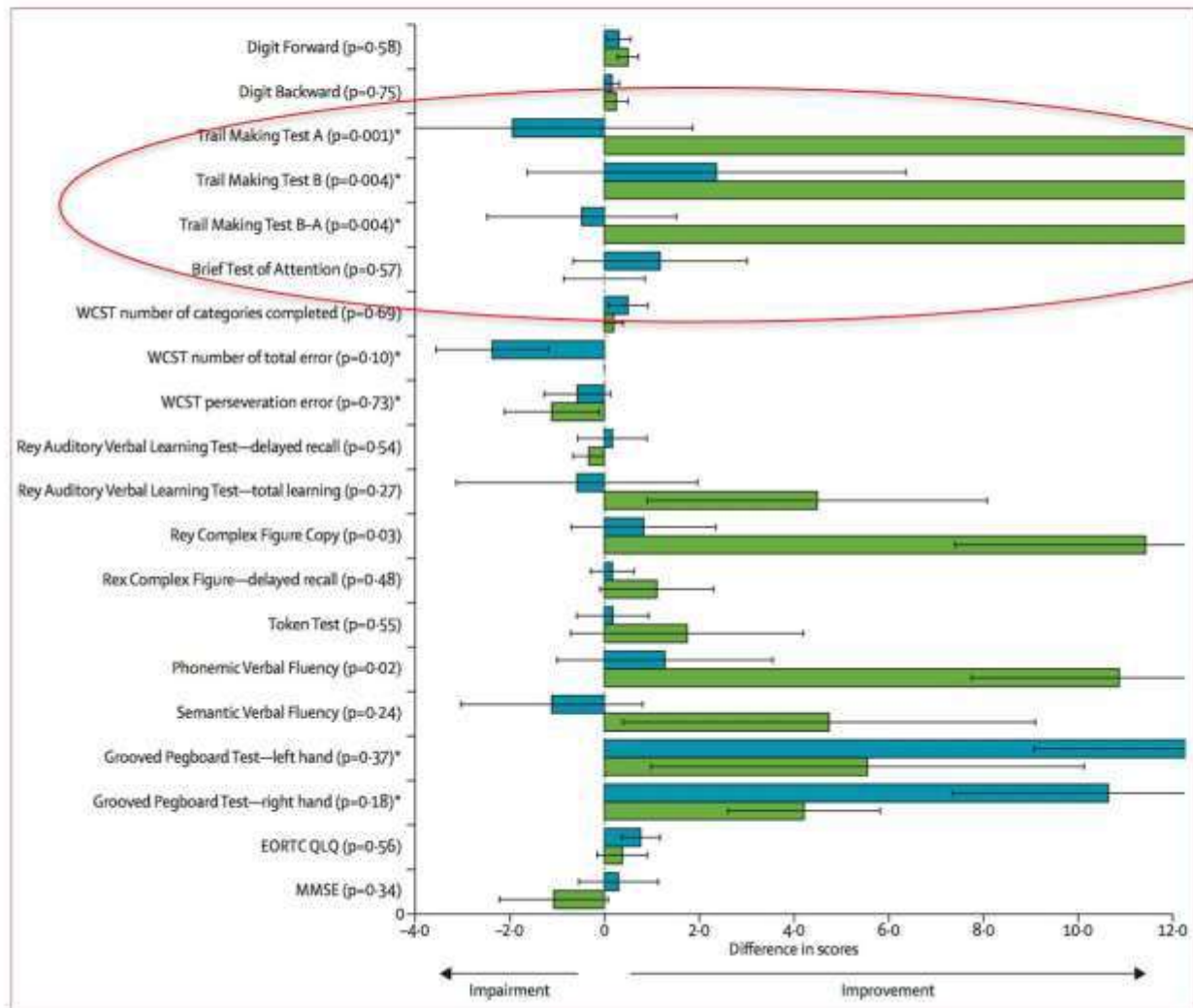
Median Follow-up 40 months

Ferreri et al., Lancet Haematology 2017

3.4% TRM with ASCT but 5 late deaths



# IELSG-32 Neurocognitive Analysis



ASCT  
WBXRT

At 2 yrs, pts treated w/ WBXRT: **declines** in executive function & learning

At 2 yrs, pts treated w/ ASCT: **improvements** in executive function, memory & QOL

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/616120230240010102>