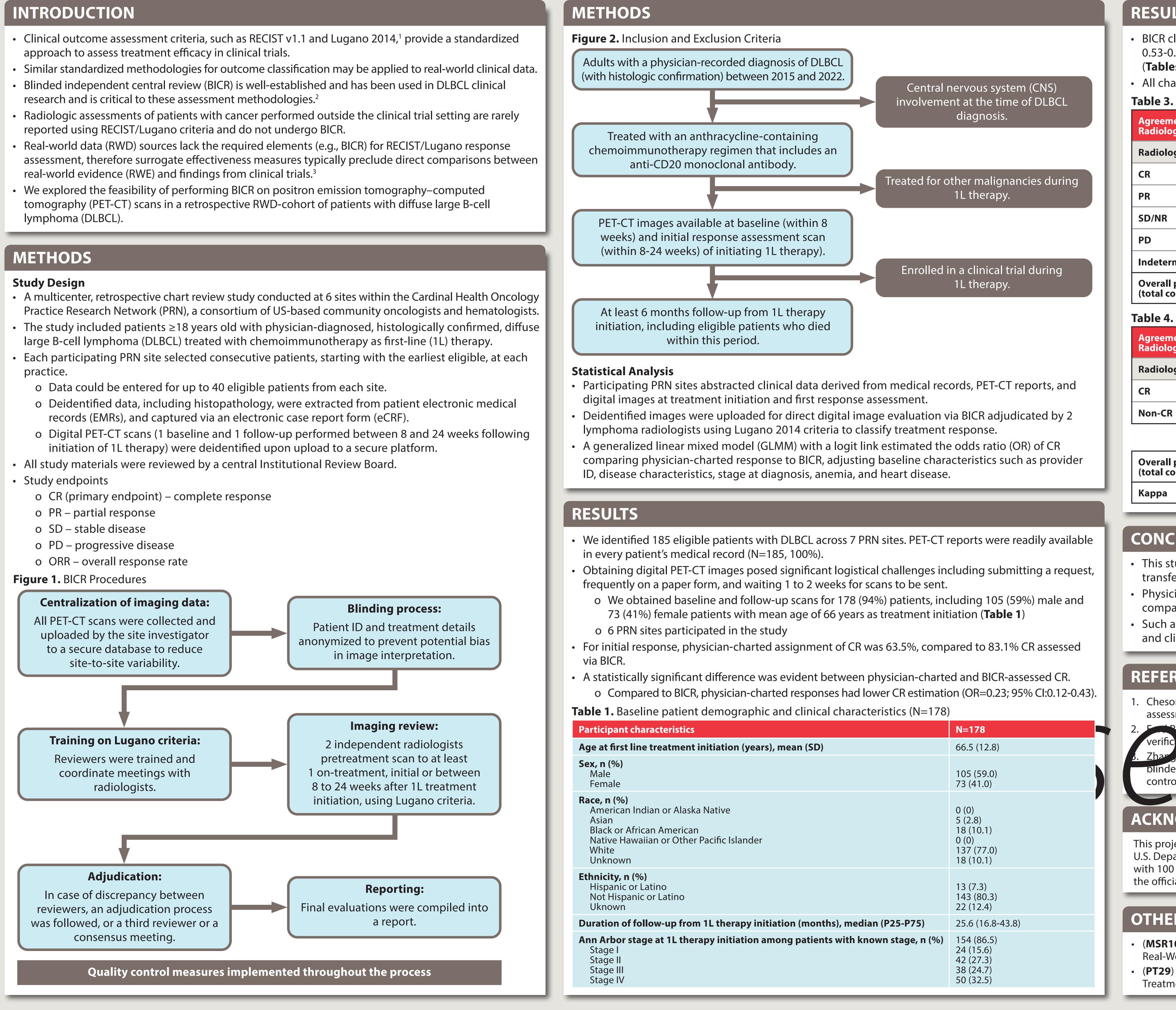
Feasibility of Using Positron Emission Tomography–Computed Tomography (PET-CT) Scans from Real-World Medical Record Data to Support Lymphoma Treatment Response Assessment

- approach to assess treatment efficacy in clinical trials.
- research and is critical to these assessment methodologies.²
- reported using RECIST/Lugano criteria and do not undergo BICR.
- real-world evidence (RWE) and findings from clinical trials.³
- lymphoma (DLBCL)

- practice.

 - records (EMRs), and captured via an electronic case report form (eCRF).



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RESULTS (CONTINUED)

- (Tables 3 and 4).
- All charts achieved concordance after adjudication with a 3rd party.

Table 3. BICR Agreement Between Radiologist 1 and Radiologist 2 for All Response Categories					
Agreement between Radiologist 1 and Radiologist 2	Radiologist 2				
Radiologist 1	CR	PR	SD/NR	PD	Indetermined
CR	122	3	1	1	9
PR	б	20	1	1	1
SD/NR	1	1	2	0	0
PD	3	1	0	3	0
Indeterminate	0	0	0	0	3
Overall percent agreement (total concordance/total sample)	84.27%				

(total concordance/total sample)

Table 4. ICR Agreement Between Radiologist 1 and Radiologist 2 for CR

Agreement between Radiologist 1 and Radiologist 2

Radiologist 1

Overall percent agreement (total concordance/total sample)

CONCLUSIONS

- transfer for BICR is challenging, yet feasible.
- and clinical trial data.

REFERENCES

Cheson BD, Fisher RI, Barrington SF, et al. Reportendations for initial evaluation, staging, and response assessment of Hodgkin and non-Hodgkin lymphoma: the Lugano classification. J Chin Oncol 2014;32:3059-68. stigator and independent review committee lands ratory

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ACKNOWLEDGEMENTS

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OTHER RELATED POSTERS PRESENTED AT ISPOR

- Real-World Lugano (rwLugano)
- Treatment Response in Real-World Data



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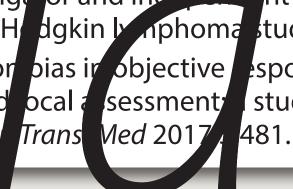
BICR classification of initial response per Lugano was concordant for CR for 155 (87%; k=0.67, 95%CI 0.53-0.79) scans and for 150 (84%) scans across all response categories CR/PR/SD/PD/Indeterminate)

Table 3 BICR Agreement Between Badiologist 1 and Badiologist 2 for All Besponse Categories

alologist i allu Naulologist 2 loi Ch						
Radiol						
CR	Non-CR					
122	14					
9	33					
Kappa/Percentage	95% Cl-Lower Limit	95% Cl-Upper Limit				
87.08%						
0.656	0.527	0.785				

This study demonstrated that pairing manual chart abstraction with de-identified digital image

Physician-charted manual assessment tended to underestimate the initial assessment of CR compared to BICR, demonstrating the importance of BICR research in the real-world setting. Such approaches may reduce outcome misclassification and increase comparability between RWD



umor reponse i a non-Hudgkin bunphoma study. Leuk Lymphom 2017;58, 332-40. g Y, Tange, et al. Valuation bias in objective response rate and dise se control rate betw blinded ind pendent central review and ocal a sessment study-level pooled a alysis or phase III rar

lomized

(**MSR101**) A Novel Methodology for Assessing Response to Lymphoma Treatment in Real-World Studies –

(PT29) A Methodologic Solution to Missing Deauville Scores Using Imaging Report Data to Classify Lymphoma

