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#### COMPENDIA TRANSPARENCY TRACKING FORM

**DATE:** 10/5/2020

**PACKET:** 2030

**DRUG:** Pembrolizumab

**USE:** Triple-negative breast cancer; Early, neoadjuvant, in combination with standard chemotherapy

COMP	COMPENDIA TRANSPARENCY REQUIREMENTS				
1	Provide criteria used to evaluate/prioritize the request (therapy)				
2	Disclose evidentiary materials reviewed or considered				
3	Provide names of individuals who have substantively participated in the review or disposition of the request and disclose their potential				
	direct or indirect conflicts of interest				
4	Provide meeting minutes and records of votes for disposition of the request (therapy)				

### EVALUATION/PRIORITIZATION CRITERIA: C, L, R, S \*to meet requirement 1

CODE	EVALUATION/PRIORITIZATION CRITERIA
Α	Treatment represents an established standard of care or significant advance over current therapies
С	Cancer or cancer-related condition
Е	Quantity and robustness of evidence for use support consideration
L	Limited alternative therapies exist for condition of interest
Р	Pediatric condition
R	Rare disease
S	Serious, life-threatening condition

Note: a combination of codes may be applied to fully reflect points of consideration [eg, therapy may represent an advance in the treatment of a life-threatening condition with limited treatment alternatives (ASL)]

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### **EVIDENCE CONSIDERED:**

\*to meet requirements 2 and 4

CITATION	STUDY-SPECIFIC COMMENTS	LITERATURE CODE
Schmid, P, Cortes, J, Pusztai, L, et al: Pembrolizumab for early triplenegative breast cancer. N Engl J Med Feb 27, 2020; Vol 382, Issue 9; pp. 810-821.	This was a double-blind, placebo-controlled, randomized Phase III trial that assessed neoadjuvant and adjuvant pembrolizumab in patients with early triple-negative breast cancer. The risk of potential bias associated with randomization, allocation concealment, performance, detection, attrition, and reporting were all deemed low. No other sources of bias were found.	S
Cortes, J, Cescon, DW, Rugo, HS, et al: KEYNOTE-355: Randomized, double-blind, phase III study of pembrolizumab + chemotherapy versus placebo + chemotherapy for previously untreated locally recurrent inoperable or metastatic triple-negative breast cancer. J Clin Oncol 2020; Vol 38, Issue 15 Suppl; p. 1000.		4
Cortes, J, Lipatov, O, Im, SA, et al: KEYNOTE-119: phase III study of pembrolizumab (pembro) versus single-agent chemotherapy (chemo) for metastatic triple negative breast cancer (mTNBC). Ann Oncol Oct 01, 2019; Vol 30 Suppl 5, pp. v859-v860.		4
Adams, S, Schmid, P, Rugo, HS, et al: Pembrolizumab monotherapy for previously treated metastatic triplenegative breast cancer: cohort A of the phase II KEYNOTE-086 study. Ann Oncol Mar 01, 2019; Vol 30, Issue 3; pp. 397-404.		3



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<u>,                                      </u>	
Adams, S, Loi, S, Toppmeyer, D, et	
al: Pembrolizumab monotherapy for	
previously untreated, PD-L1-	
positive, metastatic triple-negative	3
breast cancer: cohort B of the	
phase II KEYNOTE-086 study. Ann	
Oncol Mar 01, 2019; Vol 30, Issue	
3; pp. 405-411.	
Schmid, P, Salgado, R, Park, YH, et	
al: Pembrolizumab plus	
chemotherapy as neoadjuvant	
treatment of high-risk, early-stage	
triple-negative breast cancer:	3
results from the phase 1b open-	
label, multicohort KEYNOTE-173	
study. Ann Oncol May 2020; Vol 31,	
Issue 5; pp. 569-581.	
Vinayak, S, Tolaney, SM,	
Schwartzberg, L, et al: Open-label	
clinical trial of niraparib combined	
with pembrolizumab for treatment of	3
advanced or metastatic triple-	3
negative breast cancer. JAMA	
Oncol Jun 13, 2019; Vol 5, Issue 8;	
pp. 1132-1140.	
Nanda, R, Chow, LQM, Dees, EC,	
et al: Pembrolizumab in patients	
with advanced triple-negative breast	3
cancer: phase lb KEYNOTE-012	3
study. J Clin Oncol Jul 20, 2016; Vol	
34, Issue 21; pp. 2460-2467.	



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Page, DB, Chun, B, Pucilowska, J, et al: Pembrolizumab (pembro) with paclitaxel (taxol) or capecitabine (cape) as early treatment of metastatic triple-negative breast cancer (mTNBC). J Clin Oncol May 01, 2019; Vol 37 Suppl 15, p. 1015.	3
Ho, AY, Barker, CA, Arnold, BB, et al: A phase 2 clinical trial assessing the efficacy and safety of pembrolizumab and radiotherapy in patients with metastatic triplenegative breast cancer. Cancer Feb 15, 2020; Vol 126, Issue 4; pp. 850-860.	3
Shah, AN, Flaum, L, Helenowski, I, et al: Phase II study of pembrolizumab and capecitabine for triple negative and hormone receptor-positive, HER2-negative endocrine-refractory metastatic breast cancer. J Immunother Cancer Feb 2020; Vol 8, Issue 1; p. e000173.	3
Simmons CE, Brezden-Masley C, McCarthy J, et al. Positive progress: current and evolving role of immune checkpoint inhibitors in metastatic triple-negative breast cancer. Therapeutic Advances in Medical Oncology, vol. 12, First Published March 20, 2020.	4

Literature evaluation codes: S = Literature selected; 1 = Literature rejected = Topic not suitable for scope of content; 2 = Literature rejected = Does not add clinically significant new information; 3 = Literature rejected = Methodology flawed/Methodology limited and unacceptable; 4 = Other (review article, letter, commentary, or editorial)





#### **CONTRIBUTORS:**

\*to meet requirement 3

PACKET PREPARATION	DISCLOSURES	<b>EXPERT REVIEW</b>	DISCLOSURES
Megan Smith	None		
Stacy LaClaire, PharmD	None		
Catherine Sabatos, PharmD	None		
		John D Roberts	None
		Jeffrey Klein	None
		Richard LoCicero	Incyte Corporation
			Local PI for REVEAL. Study is a multicenter, non-interventional, non-randomized, prospective, observational study in an adult population for patients who have been diagnosed with clinically overt PV and are being followed in either community or academic medical centers in the US who will be enrolled over a 12-month period and observed for 36 months.

### **ASSIGNMENT OF RATINGS:**

\*to meet requirement 4

	EFFICACY	STRENGTH OF RECOMMENDATION	COMMENTS	STRENGTH OF EVIDENCE
IBM MICROMEDEX	Evidence is Inconclusive	Class III: Not Recommended		В
Jeffrey Klein	Evidence Favors Efficacy	Class IIa: Recommended, in Most Cases	The addition of Pembrolizumab to chemotherapy demonstrated a higher patient complete response than chemotherapy and placebo fo triple neagative breast cancer patients. The adverse effect profile, especially of the serious type has to potential to limit pembrolizumab use though.	



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John Roberts	Evidence is	Class III: Not Recommended	Early results from a single randomized, placebo controlled	
John Roberts	Inconclusive	Class III. Not Necommended	trial indicate an increase in complete pathological	
	Inconclusive			
			response rate and event free survival in patients with	
			early stage, triple-negative breast cancer receiving	
			neoadjuvant and adjuvant pembrolizumab in combination	
			with standard chemotherapy. Additional toxicity was	
			manageable. In a similar time frame, a similar study of	
			adjuvant capecitabine showed a survival benefit. Although	
			results with pembrolizumab are promising, it would be	
			premature to recommend it in the absence of favorable	
			survival data, which presumably will be forthcoming.	
Richard LoCicero	Evidence is	Class III: Not Recommended	The addition of pembrolizumab to chemotherapy for the	
	Inconclusive		neoadjuvant treatment of stage II and III triple negative	
			breast cancer was associated with an improvement in	
			pathologic complete response (pCR) rate in a single	
			phase III trial. No unexpected toxicity was observed.	
			While pCR rate may be associated with improvements in	
			other outcomes (such as event-free survival [EFS]), the	
			data in this trial was not mature enough to establish EFS	
			benefit (a primary end point in this trial).	
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