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NCCN Guidelines Panel: Breast Cancer

On behalf of Pfizer Oncology, I respectfully request the NCCN Breast Cancer Guideline Panel to review the enclosed information for inclusion of TALZENNA<sup>™</sup> (talazoparib) as a treatment option for adult patients with deleterious or suspected deleterious germline *BRCA*-mutated (*gBRCAm*) human epidermal growth factor receptor 2 (HER2)-negative locally advanced or metastatic breast cancer. TALZENNA (talazoparib) is an inhibitor of poly (ADP-ribose) polymerase (PARP) enzymes, including PARP1 and PARP2, which play a role in DNA repair.

**Specific Changes:** Recommend the addition of TALZENNA (talazoparib) for the treatment of adult patients with deleterious or suspected deleterious *gBRCAm* HER2-negative locally advanced or metastatic breast cancer.

**FDA Clearance:** On October 16th, 2018, FDA approved TALZENNA (talazoparib), a PARP inhibitor, for the treatment of adults with deleterious or suspected deleterious *gBRCAm* HER2-negative locally advanced or metastatic breast cancer.

**Rationale:** The proposed change is based on the FDA-approved indication and data from EMBRACA trial (NCT01945775), TALZENNA (talazoparib) demonstrated significantly longer progression-free survival than physician's choice chemotherapy in adult patients with *gBRCAm* HER2-negative locally advanced or metastatic breast cancer.

EMBRACA was a Phase 3, randomized, open-label study in which patients with advanced breast cancer and a germline *BRCA1/2* mutation were assigned, in a 2:1 ratio, to receive talazoparib (1 mg once daily) or standard single-agent physician's choice chemotherapy (capecitabine, eribulin, gemcitabine, or vinorelbine in continuous 21-day cycles).

The trial enrolled 431 patients; 287 were assigned to receive talazoparib and 144 were assigned to receive standard chemotherapy. The primary end point was progression-free survival (PFS), which was assessed by blinded independent central review. Median PFS in the talazoparib group was 8.6 months (95% CI: 7.2 to 9.3) compared to 5.6 months (95% CI: 4.2 to 6.7) in the standard-therapy group (hazard ratio for disease progression or death: 0.54; 95% CI: 0.41 to 0.71;  $P < 0.001$ ). Objective response rate in the talazoparib arm was 62.6% vs. 27.2% in the control arm (odds ratio, 5.0; 95% CI, 2.9 to 8.8;  $P < 0.001$ ). Overall survival results are immature at this time.

The most common adverse events (all grades;  $\geq 20\%$ ) in the TALZENNA (talazoparib) arm were anemia, fatigue, nausea, neutropenia, headache, thrombocytopenia, alopecia, vomiting, diarrhea, and decreased appetite. The most frequently reported Grade  $\geq 3$  adverse reactions ( $\geq 5\%$ ) for TALZENNA (talazoparib) were anemia, neutropenia, and thrombocytopenia. The incidence of serious AEs was 31.8% in the talazoparib arm and 29.4% in the chemotherapy arm. Adverse events resulting in discontinuation of the drug occurred in 5.9% of talazoparib patients and in 8.7% of chemotherapy patients.

Patient-reported outcomes showed a significant overall improvement from baseline in global health status–quality-of-life with talazoparib (3.0 (95% CI: 1.2 to 4.8)) in comparison with physician's choice therapy, which showed a significant deterioration (–5.4 (95% CI: –8.8 to –2.0)) ( $P < 0.0001$ ). Significant

delays in the time to clinically meaningful deterioration according to both the global health status-quality-of-life and breast symptoms scales were observed in the talazoparib arm as compared with a nonsignificant change in the chemotherapy arm.

The following references are submitted in support of this proposed change.

1. TALZENNA (talazoparib) Prescribing Information. Pfizer, Inc.



Talazoparib  
Prescribing Information

2. Litton JK, Rugo HS, Ettl J, et al. Talazoparib in Patients with Advanced Breast Cancer and a Germline BRCA Mutation. *N Engl J Med*. 2018;379(8):753-763.



Litton et  
al\_NEJM-2018.pdf



Litton et

3. Ettl J, Quek RGW, Lee K-H, et al. Quality of life with talazoparib versus physician's choice of chemotherapy in patients with advanced breast cancer and germline *BRCA1/2* mutation: patient-reported outcomes from the EMBRACA phase III trial. *Ann Oncol*. 2018 Aug 15. doi: 10.1093/annonc/mdy257. [Epub ahead of print].



Ettl et al\_Ann  
Oncol\_2018



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Oncol\_2018\_suppl

We appreciate the Panel's thorough consideration of Pfizer's recommendation that TALZENNA (talazoparib) be added for the treatment of adults with *gBRCAm* HER2-negative locally advanced or metastatic breast cancer. We welcome any questions that you may have.

Kind regards,  
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