MG’s Notes:

**CHEK2**

Associated cancers with enough data for site:

1. Breast
2. Colorectal
3. Prostate

Reviewed but not enough data for site/ controversy over risk

1. Thyroid
2. Ovarian

Secondary cancers to review later:

1. Kidney

Associated cancer with CHEK2 (<http://www.ncbi.nlm.nih.gov/gene/11200> , https://ghr.nlm.nih.gov/gene/CHEK2#conditions)

1. Breast cancer
2. Colon cancer
3. Prostate cancer
4. Osteosarcoma
5. Ovarian cancer
6. Lung cancer
7. Kidney cancer
8. Thyroid cancer

For osteosarcoma, ovarian cancer, thyroid cancer, lung cancer, kidney cancer no good papers, bringing up the question of risk. In addition, Dr. Plichta’s table does **not** list osteosarcoma, kidney cancer, or lung cancer as having increased risk.

For CHEK2 – Breast Cancer we use “Yang Y, Zhang F, Wang Y, Liu SC. CHEK2 1100delC variant and breast cancer risk in Caucasians: a meta-analysis based on 25 studies with 29,154 cases and 37,064 controls. Asian Pacific journal of cancer prevention : APJCP 2012;13:3501-5.’

For CHEK2 – Colorectal Cancer we use “Ma X, Zhang B, Zheng W. Genetic variants associated with colorectal cancer risk: comprehensive research synopsis, meta-analysis, and epidemiological evidence. Gut 2014;63:326-36.”

For CHEK2 – Prostate Cancer we use “Wang Y, Dai B, Ye D. CHEK2 mutation and risk of prostate cancer: a systematic review and meta-analysis. International journal of clinical and experimental medicine 2015;8:15708-15.”