

etors

▶ HRT use

▶ Tamoxifen use

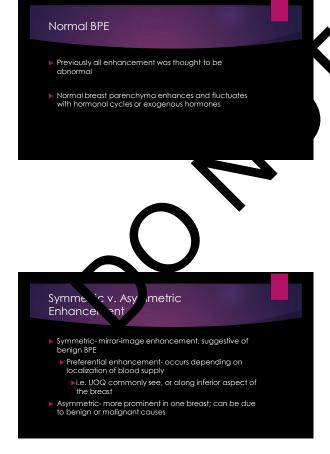
by menstrual cycleMenopausal status

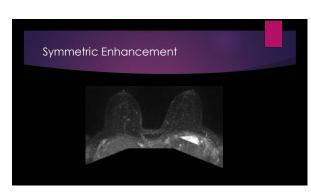
the same individual

recting BPE

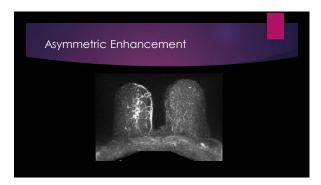
▶ Endogenous and exogenous estrogen as determined

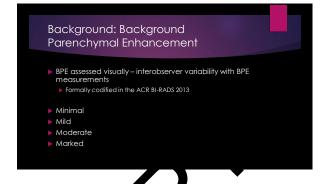
▶ BPE varies between individuals, and varies over time in

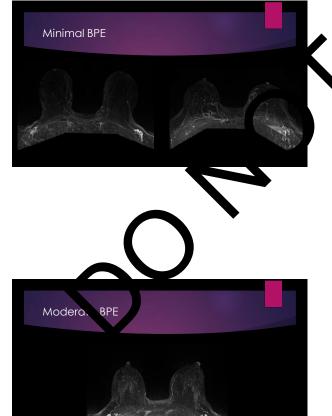


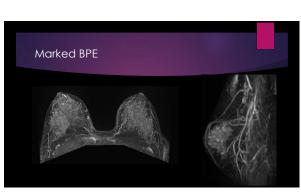




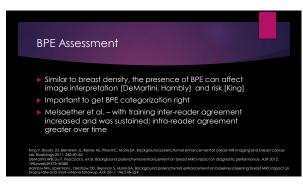


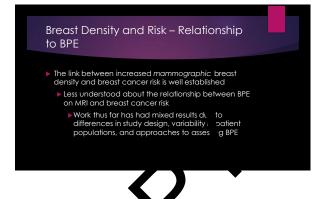












reast Cancer Risk?

▶ Several studies have reported on the association of BPE

DeLeo, Dontchos, King, Telegrafo

 Other investigations have found no association between BPE and BC – Bennani-Baiti, DeMartini, Melsaether, Albert

with breast cancer and evidence for BPE having role as an additional marker for higher risk for breast cancer -

and





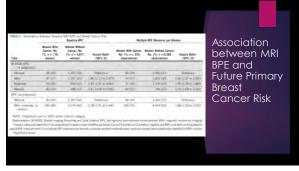












Compared with minimal BPE, increasing BPE levels were associated with significantly increased cancer risk

women undergoing breast MRI

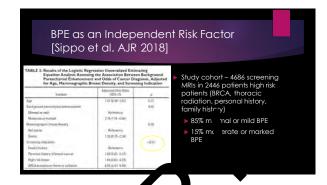
▶ BPE should be considered for risk prediction models for



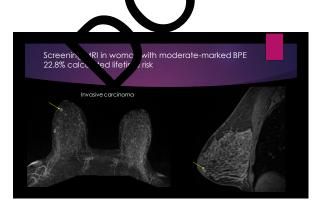
BPE is associated with future invasive breast cancer risk independent of breast density

| The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast density | The control of breast | The

Chicago International Breast Course The Westin Chicago River North November 1-3, 2019









as an Independent Risk Factor

▶ Identifying patients with hormonally responsive breast

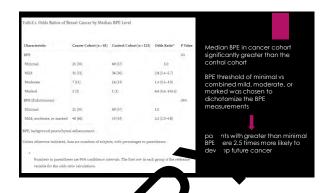
no: Br

Grade 1 invasive ductal carcinoma



Relationship between BPE on High-risk Screening MRI and Future BC Risk Screening MRIs divided into 2 cohorts: cancer cases, control patients (matched by age and high-risk indication at a 2:1 ratio) Nonsignificant differences in age, race, ethnicity, breast density and chemoprevention therapy between the groups Girm. L. et al. Relationate Deliveren Bool agroups Reventy and Ethnocement on High risk Exceening MB and Future Bool Concer Bool. Acad Sadde 2017; 74(1), 49-73.

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ment

 Given the important clinical implications of the level of BPE on breast MRI, it is becoming increasingly important to accurately determine BPE level

▶ Interobserver variability for BPE fair (κ = 0.28) – Grimm, AJR 2015

Currently, BPE is typically evaluated subjectively

▶ Method to automate under investigation



