HOLOGIC [®]	3D MAMMOGRAPHY [™] Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
HOLOGIC The Science of Sure	B 3D MAMMOGRAPHY™ Studies Updated: April 2018	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Tomosynthesis for Screening-det Bahl M, Gaffney S, McCarthy AM, Lowry K Radiology. 2018 Apr;287(1):49-57. doi: 10 *Key Point: The authors reviewed 2011 and then the DBT group of n the overall rates of screening dete		Apr-18	x				x		x	x	
Evaluation in a Population-based Hofvind S, Hovda T, Holen ÅS, Lee CI, Albe Suhrke P, Vigeland E, Skaane P Radiology. 2018 Mar 1:171361. do	rtsen J, Bjørndal H, Brandal SHB, Gullien R, Lømo J, Park D, Romundstad L, Di: 10.1148/radiol.2018171361 e detection rate of tumors with DBT and SM screening	Mar-18	x				x		x		
Characterization in Breast Cancer Mohindra N, Neyaz Z, Agrawal V, Agarwal Int J Appl Basic Med Res. 2018 Jan-Mar;8(*Key Point: The utilization of DBT	G, Mishra P. 1):33-37. doi: 10.4103/ijabmr.IJABMR_372_16 improves morphological characterization of lesions in patients ighting more suspicious features of lesions that indicate the	Mar-18	x						x		

	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Detected (2D Mammograph Patel BK, Covington M, Pizzitola VJ, AJR Am J Roentgenol. 2018 Mar 23: *Key Point: A significant nur	nthesis-Guided Vacuum-Assisted Biopsies of Tomosynthesis- y and Ultrasound Occult) Architectural Distortions Lorans R, Giurescu M, Eversman W, Lewin J :1-6. doi: 10.2214/AJR.17.18802 mber of carcinomas, particularly grade 1 cancers, were easily inimally invasive method of Tomosynthesis-guided VAB.	Mar-18									x
Mammography Alshafeiy TI, Nguyen JV, Rochman C Radiology. 2018 Mar 27:171159. do *Key Point: A restrospective suspicious AD has a lower ma	stortion Detected Only at Breast Tomosynthesis versus 2D CM, Nicholson BT, Patrie JT, Harvey JA. Di: 10.1148/radiol.2018171159 e study, 2009 to 2016, found digital breast tomosynthesis detected alignancy outcome compared with 2D mammography-detected high enough to warrant biopsy.	Mar-18					x				
Tomosynthesis Mammograp Lamb LR, Bahl M, Hughes KS, Lehma J Am Coll Surg. 2018 Feb 2. pii: S107 *Key Point: There was no di	an CD 72-7515(18)30032-2. doi: 10.1016/j.jamcollsurg.2017.12.049 fference in the upgrade rates of high-risk breast lesions on DM vs igh-risk lesion upgrades that are invasive rather than in situ	Feb-18		х			x				
reviewing the entire digital I Murphy MC, Coffey L, O'Neill AC, Q Ir J Med Sci. 2018 Feb 9. doi: 10.100 *Key Point: Although the C v	07/s11845-018-1748-7 iew image gives additional information when compared to a the full DBT tomosynthesis data set needs to be reviewed to	Feb-18	x								
prospective population-base Skaane P, Sebuødegård S, Bandos A Breast Cancer Res Treat. 2018 Feb 1	er screening using digital breast tomosynthesis: results from the ed Oslo Tomosynthesis Screening Trial II, Gur D, Østerås BH, Gullien R, Hofvind S IO. doi: 10.1007/s10549-018-4705-2 ases in screen-detected cancers and specificity were the results ening mammograms.	Feb-18	x						x		

HOLOGIC [®] The Science of Science	3D MAMMOGRAPHY Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
with national data Huay-Ben Pan, Kam-Fai Wong, Anthon Ju Li, Shu-Chin Wang, Tsung-Lung Yan Journal of the Chinese Medica	Association, Volume 81, Issue 1, January 2018, Pages 70-80 osynthesis, when compared to 2D alone, was more effective at	Jan-18	x						x		
Surveillance? Eghtedari M, Tsai c, Robles J, B Surgical Oncology Clinics of No *Key Point: Digital breast tom	rth America - Volume 27, Issue 1, January 2018, Pages 33-49 osynthesis, compared to FFDM, can be used for screening and biopsies and wire localization procedures, performing more	Jan-18						x	x		
follow-up examinations and e Bahrs SD, Otto V, Hattermann V, Klun Acta Radiol. 2018 Jan 1:28418511875 *Key Point: Compared to 2D n	clarification of mammographic BI-RADS 3 lesions can decrease nables immediate cancer diagnosis hpp B, Hahn M, Nikolaou K, Siegmann-Luz K 6458. doi: 10.1177/0284185118756458 nammography alone, DBT has the potential to reduce the recall- o find and diagnose malignant lesions earlier.	Jan-18						x			
Digital Breast Tomosynthesis? Ambinder EB, Harvey SC, Panigrahi B, Acad Radiol. 2018 Jan 25. pii: S1076-6 *Key Point: This retrospective DBT to have no significant effe		Jan-18	x								
Sonographically occult lesions Ariaratnam NS, Little ST, Whitley MA,	vacuum assisted biopsy for Tomosynthesis-detected Ferguson K - Clinical Imaging Volume 47, January–February 2018, Pages 4-8 ad accurate for lesions found through DBT and occult on FFDM and	Jan-18		x							x

HOLOGIC	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Destounis S, Arieno A, Morgan R, Philp	f Digital Breast Tomosynthesis Into Clinical Practice botts LE - Breast Tomosynthesis 2018, Pages 18–25 diagnostic performance, DBT will, in due course, become the	Jan-18						х			
Chapter 7 – Tomosynthesis Int Philpotts LE, Hooley RJ - Breast Tomos *Key Point: There are reduced short interval follow-ups (BI-RA	ynthesis 2018, Pages 56–73 screening recalls and fewer diagnostic mammograms requiring	Jan-18	x								
using concurrent Computer-Ai Balleyguier C, Arfi-Rouche J, Levy L, To European Journal of Radiology - Volun *Key Point: With or without C	oubiana PR, Cohen-Scali F, Toledano AY, Boyer B	Dec-17	х		x						
Omofoye S, Martaindale S, Teichgraeb Academic Radiology - Volume 24, Issu *Key Point: Upright digital bre	gital Breast Tomosynthesis-guided Stereotactic Biopsy her DC, Parikh JR e 11, November 2017, Pages 1451-1455 ast tomosynthesis-guided biopsy is a proven method for sampling tomosynthesis as well as 2D abnormalities.	Nov-17									x
Destounis S - Seminars in Ultrasound,	Athesis in Screening and Diagnostic Breast Imaging CT and MRI Available online 14 August 2017 wes the history of digital breast tomosynthesis through the review and scientific presentations.	Aug-17	x	х							
tomosynthesis mammogram Bennett DL, Merenda G, Schnepp S, Lo *Key Point: Primary breast ost	mimicking calcified fibroadenoma on screening digital breast owdermilk MC - Radiology Case Reports Available online 29 July 2017 reosarcoma lesion presents as a "sunburst" on the DBT images and of similarities to a calcifiedfibroadenoma.	Jul-17		х					x		

HOLOGIC [®]	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	cancer Detection	interval Cancers	Biopsy
An Observer Performance St Chan HP, Helvie MA, Hadjiiski L, Jeff Radiology Available online 21 June *Key Point: BI-RADS assessm	ries DO, Klein KA, Neal CH, Noroozian M, Paramagul C, Roubidoux MA - Academic	Jun-17	x								
	North America Volume 55, Issue 3, May 2017, Pages 493-502 false-positive examinations and the increase of cancer detection is	May-17	x		x		x		х		
*Key Point: Utilizing a synthe	graphy Imaging ics of North America Volume 55, Issue 3, May 2017, Pages 503-512 esized 2D image with DBT in a screening exam instead of acquiring a iation dose by nearly one-half, making DBT more widely available	May-17				х					
	th America Volume 55, Issue 3, May 2017, Pages 475-492 I to digital mammography, imaging the breast with DBT for non-	May-17							х		
Population Miller JD, Bonafede MM, Herschorn Radiology Volume 14, Issue 4, April *Key Point: In order to delive	er value-based care to Medicaid programs, a wider adoption of DBT he need for follow-up diagnostic services while improving the	Apr-17						х			
Tomosynthesis in a Large Scr Aujero M, Gavenonis S, Benjamin R, 2017162674 *Key Point: Synthesised 2D -	hesized Two-dimensional Mammography Combined wth reening Population Zhang Z, Holt J - Radiology. 2017 Apr;283(1):70-76. doi: 10.1148/radiol. DBT performed better than DBT + FFDM or FFDM alone in a large n terms of recall rates, PPVs without any loss in cancer detection	Apr-17	x		x	x	x		х		

HOLOGIC [®] The Boarce of East	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
compared to double-reading Houssami N, Bernardi D, Pellegrini I Epidemiology Volume 47, April 201 *Key Point: The authors fou	bg single-reading of breast tomosynthesis (3D-mammography) g of 2D-mammography: Evidence from a population-based trial M, Valentini M, Fantò C, Ostillio L, Tuttobene P, Luparia A, Macaskill P - Cancer 7, Pages 94-99 nd an increase detection of breast cancer and lower false positive of DBT compared to a double-reading of FFDM.	Apr-17	x				x				
Lam DL, Houssami N, Lee JM AJR Am J Roentgenol. 2017 Mar; 20 *Key Point: DBT is viewed to	rimary Breast Cancer Treatment ⁽²⁾ (3): 676–686. ⁽²⁾ have the most promise as a potential modality to replace FFDM as ⁽²⁾ est because of the evidence of significant decrease in recall rates.	Mar-17									
systems for simulation of im Mackenzie A, Marshall N, Hadjipant doi.org/10.1088/1361-6560/aa5dd *Key Point: Evaluation and d	d sharpness of images from four digital breast tomosynthesis nages for virtual clinical trials teli A, Dance D, Bosmanns H, Young K - Phys. Med. Biol. 62(2017)2376-2397. 9 comparrison of four differnet digital breast tomosynthesis nage sharpness and image noise.	Feb-17	x								
Population. Miller JD, Bonafede MM, Herschorr 1440(16)31328-X. doi: 10.1016/j.jac *Key Points: Wider adoption	n of DBT presents an opportunity to deliver value-based care to elp address disparities and barriers to accessing preventive care by	Jan-17	x					x			
breasts: a prospective comp Kim WH, Chang JM, Lee J, Chu AJ, S Breast Cancer Res Treat. 2017 Jan 1 *Key Point: Tomosynthesis	omosynthesis and breast ultrasonography in women with dense arison study eo M, Gweon HM, Koo HR, Lee SH, Cho N, Bae MS, Shin SU, Song SE, Moon WK - 12. doi: 10.1007/s10549-017-4105-z. exhibits comparable performance to U/S as an adjunct to of breast cancer, except among women with extremely dense	Jan-17		x			x		x		

HOLOGIC	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
A. Maldera, P. De Marco, P.E. Colomi *Key Point: The paper offers	Dose and image quality assessment bo, D. Origgi, A. Torresin - Physica Medica Volume 33, January 2017, Pages 56-67 a comparison for dose and image quality among four DBT systems on and post processing algorithms greatly affects the image quality.	Jan-17				x					
population screening trial (ST Bernardi D, Houssami N - Breast. 201 *Key Point: This short report double-reading arms impleme and predominantly by one rea	Ily one of two arms of a tomosynthesis (3D-mammography) (ORM-2). 7 Jan 17;32:98-101. doi: 10.1016/j.breast.2017.01.005. describes 13 (from 90) cancers detected in only one of two parallel ented in STORM-2. Most were detected at 3D-mammography only ader from double-reading pairs, highlighting that 3D-mammography ers that are challenging to perceive at routine screening.	Jan-17	x				x				
Fiorica JV - Clin Obstet Gynecol. 2010 *Key Point: This article is an o	mmography, and Other Modalities 6 Dec;59(4):688-709. overview of the modalities available for breast cancer screening. he clinician individualize breast cancer screening for each patient.	Dec-16	x				x				
full-field digital mammograph Clauser P, Nagl G, Helbich TH, Pinker Eur J Radiol. 2016 Dec;85(12):2161-2 *Key Point: Wide scan-angle	gital breast tomosynthesis with a wide scan angle compared to hy for the detection and characterization of microcalcifications. -Domenig K, Weber M, Kapetas P, Bernathova M, Baltzer PA 168. doi: 10.1016/j.ejrad.2016.10.004. Epub 2016 Oct 7. DBT enabled the detection and characterization of micro- nt differences from FFDM. Inter-reader variability was seen.	Dec-16		x			x				
mammography (SM) with dig diagnostic performance and r Kang HJ, Chang JM, Lee J, Song SE, Sh doi: 10.1016/j.ejrad.2016.09.007. Ep *Key Point: The combined us specificity to two-view DM with	ateral oblique (MLO) digital mammography (DM) with synthesized ital breast tomosynthesis (DBT) images: Comparison of the radiation dose with two-view DM with or without MLO-DBT. hin SU, Kim WH, Bae MS, Moon WK - Eur J Radiol. 2016 Nov;85(11):2042-2048. ub 2016 Sep 12. <i>GE tomo</i> e of CC-DM plus MLO-DBT with SM showed higher sensitivity and th a smaller AGD increment and comparable diagnostic ew DM with MLO-DBT with a significantly lower mean AGD.	Nov-16	x			x					

HOLOGIC	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Histologic Grade. Wang WS, Hardesty L, Borgstede J, *Key Point: Breast cancers in	Digital Breast Tomosynthesis: A Comparison of Pathology and Takahashi J, Sams S - Breast J. 2016 Nov;22(6):651-656. doi: 10.1111/tbj.12649. dentified through the addition of tomosynthesis are associated with ic pathology and prognostically more favorable than cancers digital mammography alone.	Nov-16					x		x		
detection of breast cancers. Choi WJ, Kim HH, Lee SY, Chae EY, S Epub 2015 Nov 3. *Key Point: The findings also detecting cancer compared t		Nov-16					x		x		
digital breast tomosynthesis Su X, Lin Q, Cui C, Xu W, Wei Z, Fei J *Key Point: DBT and US gave DCIS compared with DM in a than that of US in all cases ar	ma in situ of the breast: comparison of diagnostic accuracy of a, digital mammography, and ultrasonography. I, Li L - Breast Cancer. 2016 Nov 11 e better detection rates and diagnostic accuracy for non-calcified II cases and in dense breasts. The detection rate of DBT was lower and in dense breasts. The diagnostic accuracy of DBT was slightly cases and in dense breasts, but the difference was not statistically	Nov-16	х	x			x		x		
the Society of Breast Imagin Hardesty LA, Kreidler SM, Glueck DI *Key Point: DBT is becoming would assist practices in deci	s Utilization in the United States: A Survey of Physician Members of g. H - Am Coll Radiol. 2016 Nov;13(11S):R67-R73. doi: 10.1016/j.j acr.2016.09.030. g more common but remains a limited resource. Clinical guidelines ding whether to adopt DBT and in standardizing which patients members responded to the survey.	Nov-16					x	x			
Screening Technology Into C Lee Cl, Lehman CD - • J Am Coll R Published in 2013 *Key Point: Published in 201	s and the Challenges of Implementing an Emerging Breast Cancer linical Practice. adiol. 2016 Nov;13(11S):R61-R66. doi: 10.1016/j.jacr.2016.09.029. .3, this article speaks to the potential of digital breast tomosynthesis negative effects of the adoption of this technology.	Nov-16						x			

HOLOGIC	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
(EUSOBI) and 30 national breat Herzegovina, Bulgaria, Croatia Greece, Hungary, Iceland, Irela Poland, Portugal, Romania, Se Sardanelli F, Aase HS, Álvarez M, Azav Stojanovic D, Briediene R, Brkljacic B, Fuchsjaeger MH, Gilbert FJ, Graf O, Ha Lisencu EC, Luczynska E, Mann RM, M Pediconi F, Pijnappel RM, Pinker K, Ris RM, Vejborg I, Vourtsis A, Forrai G E *Key Point: Digital mammogra	br breast cancer by the European Society of Breast Imaging ast radiology bodies from Austria, Belgium, Bosnia and b, Czech Republic, Denmark, Estonia, Finland, France, Germany, and, Italy, Israel, Lithuania, Moldova, The Netherlands, Norway, arbia, Slovakia, Spain, Sweden, Switzerland and Turkey. edo E, Baarslag HJ, Balleyguier C, Baltzer PA, Beslagic V, Bick U, Bogdanovic- Camps Herrero J, Colin C, Cornford E, Danes J, de Geer G, Esen G, Evans A, argaden G, Helbich TH, Heywang-Köbrunner SH, Ivanov V, Jónsson Á, Kuhl CK, larques JC, Martincich L, Mortier M, Müller-Schimpfle M, Ormandi K, Panizza P, ssanen T, Rotaru N, Saguatti G, Sella T, Slobodníková J, Talk M, Taourel P, Trimboli fur Radiol. 2016 Nov 2. aphy (not film-screen or computer radiography) should be used. mammography" in the screening setting in the next future.	Nov-16	x								
Sardanelli F, Fallenberg EM, Clauser P, Imaging (EUSOBI), with language revie 2016 Nov 16. *Key Point: Information about	the EUSOBI recommendations on information for women , Trimboli RM, Camps-Herrero J, Helbich TH, Forrai G - European Society of Breast ew by Europa Donna–The European Breast Cancer Coalition - Insights Imaging. t new mammographic technologies (tomosynthesis and contrast- phy). Digital breast tomosynthesis increases cancer detection and	Nov-16	x	х	x		х				
digital mammography. Cai S, Yan J, Cai D, Huang M, Yan L - Z Chinese]	efficiency between digital breast tomosynthesis and full-field hong Nan Da Xue Xue Bao Yi Xue Ban. 2016 Oct 28;41(10):1075-1081. [Article in nical significance in BI-RADS classification for breast X-ray	Oct-16					x				
Quantra [™] and 5th edition BI-F Ekpo EU, Mello-Thoms C, Rickard M, F 10.1016/j.breast.2016.10.003.	Brennan PC, McEntee MF - Breast. 2016 Oct 18;30:185-190. doi: e moderate to substantial agreement in BD assessment between	Oct-16							x		

	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	ancer Detection	Interval Cancers	Biopsy
*Key Point: This article review	AJR Am J Roentgenol. 2016 Oct 27:1-11. /s key features of DBT including technique, clinical implementation, ging findings. We will also present the benefits of DBT in screening,	Oct-16	x	x	x		x	х	x		x
mammography for the assess study. Whelehan P, Heywang-Köbrunner S2, R, Reilly M, Stahnke M, Evans A - Clin Siemens tomo *Key Point: Siemens DBT dem analysis when used in place of soft-tissue mammographic abu		10/2016					x		x		
Hodgson R, Heywang-K€obrunner SH Published by Elsevier Ltd. *Key Point: US and European invasive cancer detection rate	mography for breast cancer screening Harvey SC, Edwards M, Shaikh J, Arber M, Glanville J - The Breast 27 (2016) 1e10 studies show that DBT + FFDM, compared to FFDM, yields higher s, increasing the effectiveness of breast cancer screening. The use thereby reduce both program costs and distress caused by a false	Oct-16	x							x	
comparison between tomosy Berger N, Schwizer SD, Varga Z, Rager 10.1016/j.clinimag.2016.09.003. *Key Point: This retrospective the size of a DCIS than MG.	hicrocalci!cations to predict the size of a ductal carcinoma in situ: hthesis and conventional mammography th C, Frauenfelder T, Boss A Clin Imaging. 2016 Nov - Dec;40(6):1269-1273. doi: e study determined that DBT provides a slightly better estimation of	Sep-16					x				
Breast Tomosynthesis Screen Zuckerman SP, Conant EF, Keller B, M radiology.rsna.org n Radiology: Volur	aidment ADA, Barufaldi B, Weinstein SP, Synnestvedt M, McDonald ES - ne 281: Number 3—December 2016 D/DBT allowed for the benefits of DBT with a decrease in radiation	Aug-16	x			x					

HOLOGIC [*] 3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Comparison of the diagnostic performance of digital breast tomosynthesis and magnetic resonance imaging added to digital mammography in women with known breast cancers Kim WH, Chang JM, Moon HG, Yi A, Koo HR, Gweon HM, Moon WK - Eur Radiol. 2016 Jun;26(6):1556-64. doi: 10.1007/s00330-015-3998-3. Epub 2015 Sep 16. *Key Point: Digital breast tomosynthesis (DBT) plus mammography was compared with MRI mammography. DBT had lower sensitivity and higher PPV than MRI.	Jun-16 lus					x				
Detection and characterization of breast lesions in a selective diagnostic population: diagno accuracy study for comparison between one-view digital breast tomosynthesis and two-view full-field digital mammography. Chae EY, Kim HH, Cha JH, Shin HJ, Choi WJ Br J Radiol. 2016 Jun;89(1062):20150743. doi: 10.1259/bjr. 20150743. *Key Point: In this study, a comparison between one-view DBT compared to two-view digital mammography, offered improved reader performance for detection and characterization of breast cancers.			x			x				
Effectiveness of Digital Breast Tomosynthesis Compared With Digital Mammography Outcom Analysis from 3 Years of Breast Cancer Screening McDonald ES, Oustimov A, Weinstein SP, Synnestvedt MB, Schnall M, Conant E - JAMA Oncology, 2016 June 1;2(6): 43 doi:10.1001/jamaoncol.2015.5536 *Key Point: Suggests 3D MAMMOGRAPHY™ screening exam outcomes were sustainable with significant reduction in patient recall, increasing cancer cases per recalled patients and a decli in interval cancers. Summary Card	³⁷⁻ 06/2016	x	x		x	x				
 Breast cancer screening with digital breast tomosynthesis. Skaane P - Breast Cancer. 2016 Apr 30. *Key Point: The retrospective and the prospective screening studies comparing FFDM and DE have all demonstrated that tomosynthesis has a great potential for improving breast cancer screening. DBT should be regarded as a better mammogram that could improve or overcome limitations of the conventional mammography, and tomosynthesis might be considered as the new technique in the next future of breast cancer screening. 	Apr-16	x								

HOLOGIC [®] The Science of Scien	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
compared to digital mammog Conant EF, Beaber EF, Sprague BL, He Armstrong K, Schnall MD, Barlow WE Clinical Trial *Key Point: The collected data	tomosynthesis in combination with digital mammography raphy alone: a cohort study within the PROSPR consortium. rschorn SD, Weaver DL, Onega T, Tosteson AN, McCarthy AM, Poplack SP, Haas JS, - Breast Cancer Res Treat (2016) 156:109–116 DOI 10.1007/s10549-016-3695-1 a supports implementation of DBT screening based on increased all, and no difference in false negative screening examinations.	Mar-16	x		x	x	x	x	x		
Chetlen A, Mack J, Chan T - Clinical In *Key Point: The article compa	oversies: who, when, why, and how? maging, Volume 40, Issue 2, March–April 2016, Pages 279-282 res and contrasts screening mammography, tomosynthesis, whole- magnetic resonance imaging, and molecular breast imaging.	Mar-16	x	x							
detected cancers and false red Houssami N, LÃ¥ng K, Bernardi D, Tag 10.1016/j.breast.2016.01.007. Review *Key Point: This pictorial revie mammography and tomosynth only at tomosynthesis screening	3D-mammography) screening: A pictorial review of screen- calls attributed to tomosynthesis in prospective screening trials liafico A, Zackrisson S, Skaane P Breast. 2016 Apr;26:119-34. doi: ew prospecttive screeing trials the performed standard digital hesis in the same screening patients. It highlights cancers detected and screens falsely recalled in the course of breast trating both true-positive (TP) and false-positive (FP) detection	Feb-16	x		x				x		
Gilbert FJ, Tucker L, Young KC Clin R *Key Point: Prospective screen studies have demonstrated red effectiveness and feasibility st	DBT): a review of the evidence for use as a screening tool. adiol. 2016 Feb;71(2):141-50. doi: 10.1016/j.crad.2015.11.008. Review. UK ning studies were reviewed and the authors agreed with the duced recall rates and increased cancer detection, in the UK, cost udies are needed before implementation into the UK NHSBSP can echnology is undoubtedly an improvement on conventional 2D	Feb-16	x		x	x	x	x			

HOLOGIC [®] The Board of Bare	3D MAMMOGRAPHY [™] Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
diagnosis of screen-detected s Cornford EJ, Turnbull AE, James JJ, Tsa Chen Y, Jones V Br J Radiol. 2016;89 *Key Point: This study provide	ng R, Akram T, Burrell HC, Hamilton LJ, Tennant SL, Bagnall MJ, Puri S, Ball GR, (1058):20150735. doi: 10.1259/bjr.20150735. UK study on GE DBT s evidence for the use of the commercially available GE DBT at least equivalent to supplementary mammographic views in the	Jan-16					x				
to digital mammography in the experience and review of the l Carbonaro LA, Di Leo G, Clauser P, Trin Bazzocchi M, Sardanelli F Eur J Radio	nboli RM, Verardi N, Fedeli MP, Girometti R, Tafà A, Bruscoli P, Saguatti G, ol. 2016 Apr;85(4):808-14. doi: 10.1016/j.ejrad.2016.01.004. d to reduce recall rates and was confirmed through double	Jan-16	x		x						
for the U.S. Preventive Service Melnikow J, Fenton JJ, Whitlock EP, M 16;164(4):268-78. doi: 10.7326/M15- *Key Point: This systematic re	iglioretti DL, Weyrich MS, Thompson JH, Shah K Ann Intern Med. 2016 Feb	Jan-16	x		x						
modality: results from the Ma study. LÃ¥ng K, Andersson I, Rosso A, Tingbe 10.1007/s00330-015-3803-3. Siemens *Key Point: Over 10,000 scree The study found a significant in	st tomosynthesis as a stand-alone breast cancer screening Imö Breast Tomosynthesis Screening Trial, a population-based rg A, Timberg P, Zackrisson S Eur Radiol. 2016 Jan;26(1):184-90. doi: ining exams from an urban Swedish population was investigated. crease in cancer detection rate when using one-view DBT as a r compared to two-view digital mammogram (DM).	Jan-16	x						x		

HOLOGIC [®] The Bolence of Bure	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Assessment From a Prospective Sumkin JH, Ganott MA, Chough DM, Catu Dec;22(12):1477-82. doi: 10.1016/j.acra. *Key Point: Large inter-reader va	llo VJ, Zuley ML, Shinde DD, Hakim CM, Bandos Al, Gur D Acad Radiol. 2015	Dec-15	x		x						
Cancer Screening within the PRC Tosteson AN, Beaber EF, Tiro J, Kim J, Mc Garcia M, Corley DA, Haas JS, Halm EA, K consortium. J Gen Intern Med. 2016 Apr; *Key Point: This study highlights	Carthy AM, Quinn VP, Doria-Rose VP, Wheeler CM, Barlow WE, Bronson M, amineni A, Rutter CM, Tosteson TD, Trentham-Dietz A, Weaver DL; PROSPR 31(4):372-9. doi: 10.1007/s11606-015-3552-7. the opportunity for improving the delivery of cancer screening nt, provider, clinic, and health system characteristics associated	Dec-15	x					x			
Retrospective Reading Study (TC Gilbert FJ, Tucker L, Gillan MG, Willsher F Morrish O, Young KC, Duffy SW – Radiolo *Key Point: Compared the diagno breast tomosynthesis (DM plus B	ynthesis for Depicting Breast Cancer Subgroups in a UK MMY Trial) , Cooke J, Duncan KA, Michell MJ, Dobson HM, Lim YY, Suaris T, Astley SM, gy. 2015 Dec; 277(3):697-706. doi: 10.1148/radiol.2015142566. Destic performance of digital mammography (DM), DM plus T), and synthesized DM plus BT (sDM plus BT) for depicting bgroups of women invited for screening. Summary Card	Dec-15	x	x		x					
Peppard HR, Nicholson, BE, Rochman CN RadioGraphics 2015; 35:975–990 - Publis *Key Point: The authors' experied diagnostic workflow to evaluate a	he Diagnostic Setting: Indications and Clinical Applications , Merchant JK, Ray C. Mayo RC, Harvey JA hed online 10.1148/rg.2015140204 nce shows that DBT can be implemented effectively in the and localize potential lesions more efficiently. DBT may supplemental mammography at diagnostic workup and obviate	Jul-15		x			x	x			
	Cancer: Final Findings & Decision Report v/California Technology Assessment Forum	Apr-15						х			

HOLOGIC [®]	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Practice Hardesty LA - AJR March 2015; 204: *Key Point: When appropriat technologist and radiologist t	blementing Digital Breast Tomosynthesis Into a Breast Imaging 581–684 e attention is given to image acquisition, interpretation, storage, raining, patient selection, billing, radiation dose, and marketing, breast imaging practice can be successful.	Mar-15	x					x			
insured US population Bonafede MM, Kalra VB, Miller JD, F *Key Point: The results of thi breast cancer screening amor	st tomosynthesis for breast cancer screening in a commercially- ajardo LL - Journal of ClinicoEconomics and Outcomes Research. Jan 2015; 7:53-63 s study demonstrate clinical and economic favorability of DBT for ng commercially-insured US women. Wider adoption of DBT pportunity to deliver value-based care in the US health care system.	Jan-15		x				x			
Necessary? Geisel J, Andrejeva-Wright L, Raghu *Key Point: Authors concluct	synthesis Mammography: Are Additional Mammographic Views M, Durand M, Levesque P, Philpotts L – RSNA 2014 le that following screening tomosynthesis, there may be no ographic views. This will help in reducing costs, radiation,	Dec-14	x	x	x						
Mammography Screening for Skaane P, Osteras B, Eben E, Gullien *Key Point: Authors conclude	Anography (FFDM) and FFDM Plus Digital Breast Tomosynthesis in Cancer Detection according to Breast Parenchyma Density. R – Radiological Society of North America 2014 that combined digital mammography and tomosynthesis has the ove the cancer detection rate in screening women with BI-RADS	Dec-14	x	x					х		
Assessment from a Prospecti Sumkin J, Zuley M, Gur D – Radiolog *Key Point: Authors conclude baseline screening resulted in	cal Society of North America 2014 that the addition of tomosynthesis to digital mammography during 32% reduction in recall rate especially in density BI-RADS 2 and 3. hat the addition of tomosynthesis to DM resulted in a substantially	Dec-14	x	x	x						

HOLOGIC The Science of Science	3D MAMMOGRAPHY Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Zuley M, Koo J, Plecha D, Rose S, Ben North America 2014 *Key Point: The authors concl imaging in CC view (78%) is sig conclude that with tomosynth	Digital Breast Tomosynthesis jamin J, Gur D, Bandos A, Sumkin J, Kelly A, Ganott M - Radiological Society of ude that the number of cancers detected with tomosynthesis gnificantly higher than in MLO view (47%). The authors also esis imaging in one or both views, all cancer types and at all primarily in dense breasts because the cancers appear like normal	Dec-14					х				
Screen-reading Strategies in P Bernardi D, Pellegrini M, Valentini M, *Key Point: The authors conclu- had a comparable cancer deter	Fanto C, Houssami N - Radiological Society of North America 2014 ude integrated synthetic 2D with 3D MAMMOGRAPHY™ imaging oction compared to integrated standard 2D and 3D hus reducing the radiation dose in patients undergoing	Dec-14	x			х					
Tomosynthesis and Digital 2D Choi J, Han B, Ko E, Ko E, Hahn S - Rac *Key Point: The authors concl mammography compared to c synthetic mammogram may re	D Mammography Reconstructed from Digital Breast Mammography for the Detection of T1 Breast Cancer diological Society of North America 2014 ude that the diagnostic performance was similar for synthetic 2D digital 2D mammography. The authors also suggest that the use of educe the radiation dose in patients, since the results indicate that a necessary during the tomosynthesis-based screening.	Dec-14	x			x					
 (AB) Aguillar V, Ferreira V, Endo E, De *Key Point: The authors concl (US) had no significant effect content 	ing Breast Tomosynthesis: Initial Experience equi C, Giannotti D, Cerri G RSNA 2014 ude that the addition of hand-held whole breast ultrasonography on the cancer detection rate after screening with breast ed the number of biopsies, lowering the overall PPV.	Dec-14		x			x	x			

HOLOGIC* The Science of Sure	3D MAMMOGRAPHY [™] Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Comparison with Prone Stere Schrading S, Distelmaier M, Dirrichs T ahead of print] PubMed PMID: 25386 *Key Point: Digital breast to reliable way to localize and appearance is low contrast	mosynthesis vacuum-assisted biopsy is an efficient and sample lesions, especially ones who mammographic and non-calcified.	Nov-14		x					-		x
for Women with Dense Breas (P) Lee CI, Cevik M, Alagoz O, Spragu Lehman CD - Radiology. 2014 Oct 13: *Key Point: Combined biennia dense breasted women aged S the potential to decrease the procedures that result from fa	e BL, Tosteson AN, Miglioretti DL, Kerlikowske K, Stout NK, Jarvik JG, Ramsey SD,	Oct-14	x						x		
breast tomosynthesis Alakhras MM, Brennan PC, Rickard M *Key Point: The authors concl performance regardless of prio	nce on breast cancer detection and localization using digital I, Bourne R, Mello-Thoms C - Eur Radiol. 2014 Sep 6. PubMed PMID: 25192796 ude that the addition of DBT to DM improved radiologists' or DBT experience; and both increased the number of cancers urate localization of breast lesions. Summary Card	Sep-14							x		
Durand MA, Haas BM, Yao X, Geisel J PubMed PMID: 25188431 *Key Point: The authors concl mammography resulted in 37	Digital Breast Tomosynthesis for Screening Mammography L, Raghu M, Hooley RJ, Horvath LJ, Philpotts LE - Radiology. 2014 Sep 1:131319. ude that the addition of tomosynthesis to conventional 2D % reduction in recall rate compared conventional 2D cant difference in the cancer detection rate. The reduction in recall mmetries and calcifications.	Sep-14			x		x				

HOLOGIC	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Breast Tomosynthesis Lourenco AP, Barry-Brooks M, Baird G 25247407 *Key Point: The study results d biopsy PPV or cancer detection	tient Treatment Following Implementation of Screening Digital Tuttle A, Mainiero MB - Radiology. 2014 Sep 22:140317. PubMed PMID: emonstrate a 31% reduction in recall rate without a change in rate after implementation of DBT. There were fewer recalls for for masses, calcifications, and areas of architectural distortion.	Sep-14			х						
Readings of the Corresponding Rose SL, Tidwell AL, Ice MF, Nordmann acra.2014.04.008. PubMed PMID: 251 *Key Point: The authors conclu- to FFDM resulted in significant	AS, Sexton R Jr, Song R - Acad Radiol. 2014 Sep; 21(9):1204-10. doi: 10.1016/j. 07868 ded that for screening asymptomatic women, the addition of DBT improvements in both performance measures, namely a vith a simultaneous increase in cancer detection rate, particularly	Sep-14	x		x		x				
Mammography for Breast Can Greenberg J, Javitt M, Katzen J, Michae *Key Point: The authors conclu- resulted in increases in cancer also resulted in decreases in th positive predictive value for rec	-	Sep-14	x		x		x				
mammography in the assessm Morel JC, Iqbal A, Wasan RK, Peacock 6. doi: 10.1016/j. rad.2014.06.005. Epu *Key Point: The authors confirm evaluating mammographic abn	omosynthesis compared with coned compression magnification ent of abnormalities found on mammography C, Evans DR, Rahim R, Goligher J, Michell MJ - Clin Radiol. 2014 Nov;69(11):1112- ub 2014 Aug 3. PubMed PMID: 25100302 In that two-view mammography with one-view DBT is better is formalities compared to two-view mammography and CCMM. The DBT can be used effectively at screening and in symptomatic evaluating these abnormalities.	Aug-14	x	x							

HOLOGIC The Exerce of Exer The Exerce of Exer The Exerce of Exer Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Detection of mammographically occult architectural distortion on digital breast tomosynthesis screening: initial clinical experience Partyka L, Lourenco AP, Mainiero MB - AJR Am J Roentgenol. 2014 Jul; 203(1):216-22. doi: 10.2214/AJR.13.11047 *Key Point: Breast tomosynthesis can visualize architectural distortions (ADs) better than digital mammography (DM), and also can detect ADs that that are hidden on DM, thus increasing the cancer detection rate.	Jul-14	x				x				
Breast screening using 2D-mammography or integrating digital breast tomosynthesis (3D- mammography) for single-reading or double-reading - Evidence to guide future screening strategies Houssami N, Macaskill P, Bernardi D, Caumo F, Pellegrini M, Brunelli S, Tuttobene P, Bricolo P, Fantò C, Valentini M, Ciatto S - Eur J Cancer 2014 Jul; 50(10):1799-807 * Key Point: 3D MAMMOGRAPHY [™] imaging was found to offer significantly higher cancer detection than 2D mammography using either single or double reading. The authors suggest that based on this evidence, screening practices may be made more effective by employing 3D MAMMOGRAPHY [™] imaging rather than 2D mammography. Summary Card	Jul-14	x						x		
 Digital breast tomosynthesis: lessons learned from early clinical implementation (P) Roth RG, Maidment AD, Weinstein SP, Roth SO, Conant EF - Radiographics. 2014 Jul-Aug; 34(4):E89-E102. doi: 10.1148/rg.344130087. PubMed PMID: 25019451 * Key Point: The authors conclude that the clinical implementation of digital breast tomosynthesis improves screening and diagnostic accuracy. The data shows a large education in recall rate with an increased cancer detection rate in the screening population. The data also shows enhanced conspicuity of lesions, especially architectural distortion and masses. The authors also conclude that diagnostic tomosynthesis can reduce the number of supplemental 2D imaging examinations (spot compressions and additional projections for localization) thus improving workflow. 	Jul-14	x	x	x		x	х			

HOLOGIC [®] The Boards of Bare	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	cancer Detection	Interval Cancers	Biopsy
Gartner R, Maidment ADA, Susan P. Published online 10.1148/4130087 *Key Point: CDBT has shown year after implementing DBT reduction in overall callback r examinations, improved cons distortion and masses. The us	E: Lessons Learned from Early Clinical Implementation Weinstein SP, Orel Roth S, Conant EF - RadioGraphics 2014; 34:E89–E102 - improved accuracy for screening and diagnostic breast imaging. One for all screening patients, it has demonstrated a substantial ate and a trend toward increased cancer detection. In diagnostic picuity of lesions with use of DBT, particularly for architectural se of DBT in the diagnostic setting can expedite workups by reducing eded (ie, spot compressions and additional projections for	Jul-14	x	x	x		x	x			
Friedewald S, Rafferty E, Rose S, Dur Miller D, Conant E - JAMA. 2014; 31: *Key Point: In this largest scr conclude that the addition of an increase in cancer detection	and M, Plecha D, Greenberg J, Hayes M, Copit D, Carlson K, Cink T, Barke L, Greer L, 1(24):2499-2507. doi:10.1001/jama.2014.6095 eening study involving over 450,000 examinations, the authors 3D MAMMOGRAPHY [™] exams to 2D mammography demonstrated on rate and a decrease in the recall rate. The authors also conclude 1% after the introduction of tomosynthesis. Summary Card	Jun-14	x		х		х				
on radiologists' true-positive Bernardi D, Caumo F, Macaskill P, Ci Montemezzi S, Houssami N Eur J Cau *Key Point: Variability in perf reflected in variability with th variability in true positive rea the addition of tomosynthesi	ormance among radiologists using 2D mammography was also e addition of 3D MAMMOGRAPHY [™] exams, however there was less ds using 3D MAMMOGRAPHY [™] imaging. The authors conclude that s to 2D conventional mammography either reduced the false cancer detection rate, with most readers achieving both	May-14					x				

HOLOGIC [®] The Science of Sure	3D MAMMOGRAPHY Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Features and Histology (AB) Butler R, Marx S, Durand M, H Presented at the ARRS 2013, Scien *Key Point: Tomosynthesis diagnostic workup, or evalu	Tisible on Tomosynthesis and Occult on 2D Mammography: Imaging Hooley R, Horvath L, Raghu M, Andrejeva L, Philpotts L htific Session 27 - Breast Imaging finds lesions occult on 2D mammography from screening, in ation of palpable masses. Tomosynthesis can also be used for r obtaining a histologic diagnosis.	May-14	x	x							
Freer PE, Wang JL, Rafferty EA - Ra	is in the analysis of fat-containing lesions adiographics. 2014 Mar-Apr;34(2):343-58 classification of fat containing lesions using tomosynthesis differs mography.	Mar-14		x							
preoperative assessment of Mariscotti G, Houssami N, Durand A, Fonio P, Gandini G Anticancer R *Key Point: The authors cor	o M, Bergamasco L, Campanino PP, Ruggieri C, Regini E, Luparia A, Bussone R, Sapino	Mar-14		x	x			x			
mammography or full field Destounis S, Arieno A, Morgan R - *Key Point: The authors cor	bination digital breast tomosynthesis plus full field digital digital mammography alone in the screening environment J Clin Imaging Sci. 2014 Feb 25;4:9 Include that the addition of breast tomosynthesis to digital reduced the recall rate by ~63%	Feb-14			x						
combined with one-view an Rafferty E, Park J, Philpotts L, Popl 281 *Key Point: The authors cor mammography improved th addition of two-view tomos performance gain at the sar MAMMOGRAPHY™ imaging imaging women with dense	call rates for digital mammography and digital mammography and two-view tomosynthesis: results of an enriched reader study lack S, Sumkin J, Halpern E, Niklason L - AJR Am J Roentgenol. 2014 Feb; 202(2):273- include that the addition of one-view tomosynthesis to digital ne diagnostic accuracy and reduced the recall rate. However, the synthesis to digital mammography resulted in twice the diagnostic me time further reducing the recall rate. Two-View 3D g in combination with 2D had a large gain in diagnostic accuracy for breasts; in fact the diagnostic accuracy for women with dense D alone for women with nondense breasts. Summary Card	Feb-14			x		x				

	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	cancer Detection	Interval Cancers	Biopsy
Images: Comparison with Dig Images Skaane P, Bandos A, Eben E, Jebsen I, 2014 Jan 24:131391 *Key Point: The use of synthes FFDM plus DBT when interpret and false-positive scores. The (Hologic's C-View [™] software) of	by the sis Screening with Synthetically Reconstructed Projection ital Breast Tomosynthesis with Full-Field Digital Mammographic Krager M, Haakenaasen U, Ekseth U, Izadi M, Hofvind S, Gullien R - Radiology Sized 2D images combined with DBT performed comparably to cing screening mammograms in terms of cancer detection rates authors also conclude that the use of generated 2D images constituted an average dose reduction of 45% while not resulting in ences in diagnostic accuracy. Summary Card	Jan-14	x	x	x	x					
Mammograms Alone and in C Zuley M, Guo B, Catullo V, Chough D, Radiology 2014 Jan 21:131530 *Key Point: The authors concl combination with tomosynthe FFDM in a routine clinical stud	hal Synthesized Mammograms versus Original Digital ombination with Tomosynthesis Images Kelly A, Lu A, Rathfon G, Spangler M, Sumkin J, Wallace L, and Bandos A - ude that the use of synthetic mammograms whether alone or in sis has similar diagnostic accuracy and may eliminate the need for y. The authors also conclude that the use of synthetic liation dose in patients that are undergoing tomosynthesis based mary Card	Jan-14	x			x					
breast cancer screening Haas BM, Kalra V, Geisel J, Raghu M, *Key Point: In this study, 13,11 examinations were retrospect reduction in recall rates (~30% old and in women with dense	plus digital mammography and digital mammography alone for Durand M, Philpotts L - Radiology 2013 Dec;269(3):694-700 58 screening mammography examinations and 6,100 combo vely review. The study results demonstrated a significant , the greatest reductions seen for women younger than 50 years preasts, ~50%) along with an increase in the cancer detection rate action of tomosynthesis in the clinical practice. Summary Card	Dec-13	x		x						

HOLOGIC [®] The Science of Bare	3D MAMMOGRAPHY [™] Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Measure of Outcome Conant E, Wan F, Thomas M, Synnest of North America 2013, SSK01-02 *Key Point: The implementation reduction in recall rates and an	omosynthesis (DBT) in a Screening Population: PPV1 as a vedt M, Weinstein S, Roth S, Kontos D, McCarthy A, Mitra N - Radiological Society on of tomosynthesis in a large screening program demonstrated a n increase in cancer detection rates that varied by reader. The eader, as measured by PPV1, showed significant improvements for 1 reader.	Dec-13	x		x		x				
Fajardo L, Limin Yang L, Park J - Radio *Key Point: 50 biopsy recomm from September 2012 to Marc tomosynthesis as part of their detected by the addition of tor	indings of Breast Lesions Detected by Tomosynthesis ogical Society of North America 2013, SSK01-08 endations were made in 4350 women that underwent screening h 2013, including 15 biopsies in 2,610 women choosing to undergo screening exam. The authors conclude that 30% more cancers are mosynthesis to FFDM in their screening program. They also proved with the addition of tomosynthesis to their practice	Dec-13					x				
Tomosynthesis versus Conven Dang P, Humphrey K, Freer P, Halperr *Key Point: Conclude that can significantly better with tomos	on and Characterization in Invasive Cancers Using Breast tional Mammography E, Saksena M, Rafferty E - Radiological Society of North America 2013, SSE02-03 cers presenting with architectural distortion were detected ynthesis as compared to digital mammography. Similar effect was cer morphology. Summary Card	Dec-13		x			x				
Butler R, Ostrover R, Hooley R, Geisel *Key Point: In this study, 246 of 2D mammography) that were radiologists. Tomosynthesis im cancers in 80% women with sc	er Visualization as a Function of Mammographic Density J, Raghu M, Philpotts L - Radiological Society of North America 2013, SSE02-04 cancers (in 201 women) imaged with the combo mode (Tomo plus diagnosed between 10/3/2011 and 1/16/2013 were reviewed by 7 aging is especially beneficial for visualizing non-calcification breast attered and heterogeneously dense breasts. It is also better in <i>v</i> ith architectural distortion, invasive lobular histology that is azing small tumors.	Dec-13		x			x				

HOLOGIC [®]	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Assessment Categories? Raghu M, Hooley R, Philpotts L, Geisel . North America 2013, SSE02-06 *Key Point: The authors conclue	Diagnostic Mammography: Can Tomo Affect the Final Durand M, Andrejeva-Wright L, Horvath L, Butler R - Radiological Society of the that the number of patients categorized as BI-RAD3 needing he use of tomosynthesis in diagnostic mammography.	Dec-13		х	x		х				
Tomosynthesis (DBT) for the De Mariscotti G, Durando M, Martincich L, Radiological Society of North America 2 *Key Point: Six radiologists retra results demonstrated an increas using digital breast tomosynthe breasts. DBT + DM demonstrate	Mammography (DM) vs. DM Combined with Digital Breast etection of Invasive Lobular Carcinoma (ILC) Caramia E, Campanino P, Luparia A, Bergamasco L, Fonio P, Gandini G 2013, SSE02-02 Dispectively interpreted 56 examinations of women. The study se in the sensitivity and diagnostic accuracy in the detection of ILC sis. The effect was more pronounced in women with dense ed an increase in cancer detection rate and a decrease in the include that the PPV3 improved by 21% after the introduction of	Dec-13		x	x		x				
Fajardo L, Limin Yang L, Park J - Radiolo *Key Point: 50 biopsy recomme from September 2012 to March tomosynthesis as part of their s detected by the addition of tom	ndings of Breast Lesions Detected by Tomosynthesis gical Society of North America 2013, SSK01-08 Indations were made in 4350 women that underwent screening 2013, including 15 biopsies in 2,610 women choosing to undergo creening exam. The authors conclude that 30% more cancers are osynthesis to FFDM in their screening program. They also oved with the addition of tomosynthesis to their practice.	Dec-13		x			x				
Philpotts L, Kalra V, Crenshaw J, Butler *Key Point: 11,101 screening ar to 16,438 total exams. The auth	Patient Work Up, Throughput, and Resource Utilization R - Radiological Society of North America 2013, SSK01-09 and 5,357 diagnostic exams were performed for an overall increase ors conclude that the addition of tomosynthesis resulted in fewer th resulted in faster patient diagnostic workup and better patient tion.	Dec-13		x	x			x			

HOLOGIC [®] The Science of Sure	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Trends in Time to Interpretation of Tomosynthesis Based Screening Examinations with Increasing Experience (AB) Skaane P, Eben E, Jebsen I, Haakenaasen U, Krager M, Izadi M, Jahr G, Ekseth U - Presented at RSNA 2013, SSK01- 04 Breast Imaging (Digital Breast Tomosynthesis Screening Outcomes) *Key Point: The authors conclude that addition of tomosynthesis increases the interpretation time, but that the time is acceptable for high-volume screening. This time decreases with increasing experience. Summary Card		Dec-13	x					x			
Prospective trial comparing full-field digital mammography (FFDM) versus combined FFDM and tomosynthesis in a population-based screening programme using independent double reading with arbitration Skaane P, Bandos AI, Gullien R, Eben EB, Ekseth U, Haakenaasen U, Izadi M, Jebsen IN, Jahr G, Krager M, Hofvind S - Eur Radiol. 2013 Aug;23(8):2061-71 *Key Point: 2D and 3D [™] imaging were performed during the first year on 12,629 consenting women. The study results demonstrated that double reading of 2D plus 3D [™] imaging significantly improves cancer detection rate compared to 2D alone during mammographic screening. Summary Card		Aug-13	x								
screening (STORM): a prospe Ciatto S, Houssami N, Bernardi D, Ca Montemezzi S, Macaskill P - Lancet C *Key Point: Integrated 2D and detection and has the potent detected were visible only aft	aumo F, Pellegrini M, Brunelli S, Tuttobene P, Bricolo P, Fantò C, Valentini M, Oncol. 2013 Jun; 14(7):583-9 d 3D MAMMOGRAPHY [™] exams significantly improves breast-cancer ial to reduce false positive recalls. Twenty of the 59 cancers ter the addition of tomosynthesis. Cancer detection increased 51% nsities for integrated 2D and 3D MAMMOGRAPHY [™] exams	Jun-13					x				
study Rose SL, Tidwell AL, Bujnoch LJ, Kush 8 *Key Point: The study results with a non-significant increas cancers) after the introductio	mosynthesis in a routine screening practice: an observational hwaha AC, Nordmann AS, Sexton R Jr - AJR Am J Roentgenol. 2013 Jun;200(6):1401- demonstrated a significant reduction in recall rates (~37%) along e in the cancer detection rate (35% overall, 54% for invasive in of tomosynthesis in the clinical practice. These improvements ast density categories. Summary Card	Jun-13	x		x						

HOLOGIC [®] The Bolence of Bure	3D MAMMOGRAPHY TM Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
Comparison of digital mammography alone and digital mammography plus tomosynthesis in a population-based screening program Skaane P, Bandos AI, Gullien R, Eben EB, Ekseth U, Haakenaasen U, Izadi M, Jebsen IN, Jahr G, Krager M, Niklason LT, Hofvind S, Gur D - Radiology 2013 Apr; 267(1):47-56 *Key Point: In a screening study involving over 12,000 women, the addition of tomosynthesis to digital mammography resulted in a 40% increase in the cancer detection rate for invasive cancers, and a simultaneous significant decrease in false-positive rate. The increase was observed across all breast densities. Summary Card		Apr-13	x				x				
One-View Versus Two-View Tomosynthesis: A Comparison of Breast Cancer Visibility in the Mediolateral Oblique and Craniocaudal Views Beck N, Butler R, Durand M, Andrejeva L, Hooley R, Horvath L, Raghu M, Philpotts L - American Roentgen Ray Society April 2013., 177, SS 27 *Key Point: The study included 106 patients who received both 2D mammography and tomosynthesis in both the views (mediolateral oblique and craniocaudal) in one year in both screening and diagnostic setting. Results demonstrated that obtaining both views is necessary to ensure that a cancer will be optimally visualized and derive the greatest potential benefit from tomosynthesis. Summary Card		Apr-13	x	x							
 The role of additional tomosynthesis combined with digital mammography Martínez P, Echano J, Sainz M, Simon I, Viteri G, Garcia Lallana A, Minguillon C, Pina L - European Congress of Radiology annual meeting, Vienna, Austria, March 2013, B-0809, SS 1702 *Key Point: 9301 combo studies were retrospectively reviewed. The study concludes that the addition of DBT to conventional 2D screening mammography increases the cancer detection rate by 61%. No statistical differences were found among the three density patterns, so tomosynthesis can be useful not only in dense patterns but also in pattern 2. Summary Card 		Mar-13	x				x				
screening recalls without ca Brandt KR, Craig DA, Hoskins TL, He Feb;200(2):291-8 *Key Point: The authors con conventional digital mammo screening mammography. Th	hesis replace conventional diagnostic mammography views for Ilcifications? A comparison study in a simulated clinical setting enrichsen TL, Bendel EC, Brandt SR, Mandrekar J - AJR Am J Roentgenol. 2013 clude that DBT offers similar sensitivity and specificity compared to ography for the evaluation of noncalcified findings recalled from he authors also concluded that for more than 90% of the findings, for further mammographic evaluation, and can replace conventional	Feb-13		x	x						

HOLOGIC [®] The Science of Sure	3D MAMMOGRAPHY [™] Clinical Papers	Date	Screening	Diagnostic	Recall Rates	Dose	Outcomes	Economics	Cancer Detection	Interval Cancers	Biopsy
tomosynthesis compared v multireader trial (P) Rafferty EA, Park JM, Philpotts 13. doi: 10.1148/radiol.12120674 *Key Point: Radiologist per	rmance using combined digital mammography and breast vith digital mammography alone: results of a multicenter, LE, Poplack SP, Sumkin JH, Halpern EF, Niklason LT - Radiology. 2013 Jan;266(1):104- formance for diagnostic accuracy and recall rate significantly ion of tomosynthesis to digital mammography.	Jan-13			х		х				
Digital breast tomosynthesis versus supplemental diagnostic mammographic images for evaluation of non-calcified breast lesions Zuley ML, Bandos AI, Ganott MA, Sumkin JH, Kelly AE, Catullo VJ, Rathfon GY, Lu AH, Gur D - Radiology 2013 Jan; 266(1): 89-95 *Key Point: Tomosynthesis significantly improved diagnostic accuracy for non-calcified lesions compared to supplemental mammographic views.		Jan-13		x	х						
Cost-Effectiveness of Digital Breast Tomosynthesis Kalra V, Haas B, Forman H, Philpotts L - Radiological Society of North America 2012, LL-BRS-WE5C *Key Point: Combined DBT had a direct cost savings of \$10,185 per 1,000 women screened resulting from decreased callback rates. Given that there also appears to be a trend for improved cancer detection rate, combined DBT appears to be preferable to FFDM alone for screening mammography.		Dec-12	x		х			х			
 A comparison of the accuracy of film-screen mammography, full-field digital mammography, and digital breast tomosynthesis Michell MJ, Iqbal A, Wasan RK, Evans DR, Peacock C, Lawinski CP, Douiri A, Wilson R, Whelehan P - Clin Radiol. 2012 Oct;67(10):976-81 *Key Point: The addition of tomosynthesis improved the diagnostic accuracy in the assessment of screen detected soft tissue lesions compared to full-field digital mammography and film-screen mammography alone. Summary Card 		Oct-12	x	x							
Skaane P, Gullien R, Bjørndal H, El 1;53(5):524-9 *Key Point: The authors stu	is (DBT): initial experience in a clinical setting ben EB, Ekseth U, Haakenaasen U, Jahr G, Jebsen IN, Krager M - Acta Radiol. 2012 Jun died the performance of tomosynthesis in imaging work-up and easing sensitivity, especially for cancers manifesting as spiculated hmary Card	Jun-12		x			x				



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