

2025年サンアントニオ報告

がん研究会有明病院
乳腺センター 乳腺外科

木村 優里



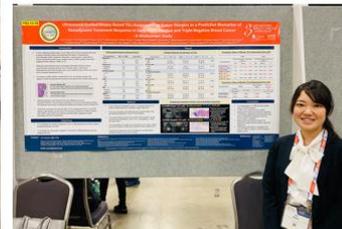
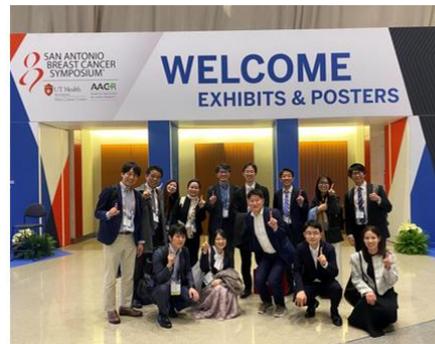
SABCS2025 注目topic

- **HER2+ EBC** ✓ TILs関連
 - CompassHER2, APHINITY

- **HER2+ MBC** ✓ MBC治療戦略の変容
 - HER2CLIMB-05, PATINA

- **ER+ EBC**
 - lidERA, LORETTA

- **ER+ MBC** ✓ Oral SERD関連
 - ASCENT-7, SERENA-6, EMBER-3, evERA



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➤ ER+ MBC

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内分泌療法の進化

Oral SERD

最新トレンド：

乳がん診療は治療だけでなく
人生全体を支える医療へ

治療のde-escalationと
個別化

サバイバーシップへの
関心の高まり

本日のtopic

1. lidERA trial Oral SERDによるAdjuvant治療の変革
2. LORETTA trial 低リスクDCISの手術省略の治療戦略
3. YES trial AYA世代のサバイバーシップ支援の新形態
4. PREFER trial 妊孕性温存の現状
5. WISDOM1.0 trial リスク別の個別化検診



DECEMBER 9–12, 2025

HENRY B. GONZALEZ CONVENTION CENTER • SAN ANTONIO, TX

HR+HER2-早期乳癌の術後内分泌療法において、Oral SERDである giredestrantの有効性および安全性を検証したP3ランダム化比較試験

Giredestrant vs standard-of-care endocrine therapy as adjuvant treatment for patients with estrogen receptor-positive, HER2-negative early breast cancer: Results from the global Phase III lidERA Breast Cancer trial

Presenting author: Aditya L. Bardia, MD

University of California, Los Angeles, Los Angeles, CA, USA

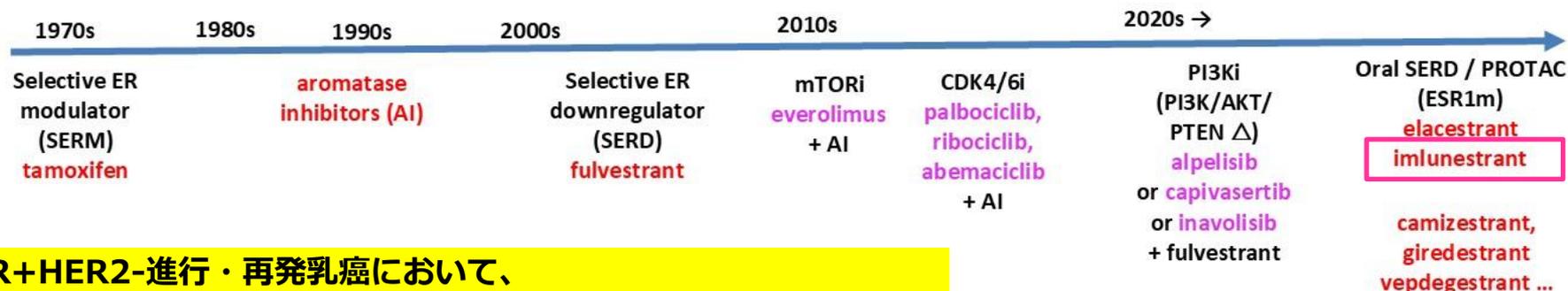
Aditya L. Bardia,* Peter Schmid,* Miguel Martín, Sara A. Hurvitz, Kyung Hae Jung, Mothaffar F. Rimawi, Shigehira Saji, Gustavo Werutsky, Nadia Harbeck, Sherene Loi, Akiko Ogiya, Manuel Ruiz-Borrego, Ahmet Alacacioğlu, Jiong Wu, Chenglin Ye, Mario Liste-Hermoso, Nimali P. Withana, Tanja Badovinac Crnjevic, Mona D. Shah, Pablo Pérez-Moreno, Charles E. Geyer, Jr.*

* Equal contributions

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Targeting the Estrogen Receptor in HR+ Disease

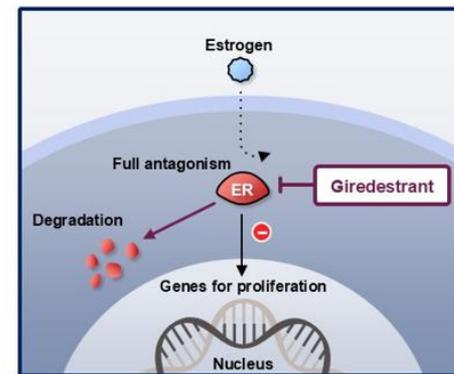
Metastatic breast cancer



HR+HER2-進行・再発乳癌において、次世代経口選択的エストロゲン受容体分解薬(Oral SERD)が登場

Oral SERDとは・・・

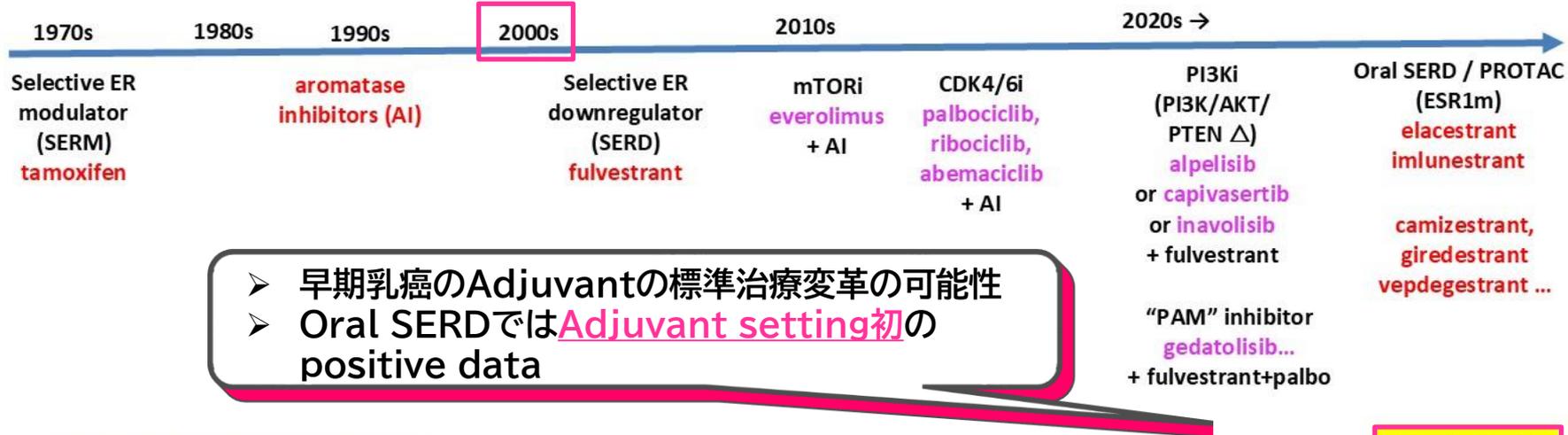
- ✓ ERの働きをブロック+ERをより強力に分解
- ✓ Fulvestrantの通院や筋肉注射の負担を軽減
- ✓ ホルモン療法後に増悪したESR1m+を有するHR+HER2-進行・再発乳癌に対して、イムルリオ(ilunestrant)が承認



Giredestrant mechanism of action
(selective estrogen receptor antagonist and degrader)

Targeting the Estrogen Receptor in HR+ Disease

Metastatic breast cancer



Nonmetastatic breast cancer



lidERA Breast Cancer study design

A global, randomized, open-label, multicenter Phase III trial

Key eligibility criteria

- Participants with ER+, HER2-negative early breast cancer
- Stage I–III disease (anatomical)
 - pN0 and pT > 1 cm with Grade 3, or Ki67 ≥ 20%, or high score on genomic assay,* or pT4N0
 - Node-positive
- Pre- or post-menopausal†
- Breast cancer surgery within 12 months
- (Neo)adjuvant chemotherapy if indicated

Stratification factors

- Risk: Medium-‡ vs high-risk§ Stage I–III breast cancer
- Region: USA/Canada/Western Europe vs Asia–Pacific vs RoW
- Previous chemotherapy: No vs yes
- Menopausal status: Pre-menopausal vs post-menopausal

N = 4170

R
1:1

At least 5-year treatment duration

Giredestrant (30 mg PO QD)

SOC ET

Tamoxifen/anastrozole/letrozole/exemestane

5-year follow-up

Long-term
follow-up

Primary endpoint

- IDFS (excluding second primary non-breast cancer)

Key secondary endpoints

- DFS, DRFI, IDFS (including second primary non-breast invasive cancer with exception of non-melanoma skin cancers and *in situ* carcinomas of any site), LRRFI, OS, safety

Giredestrant is currently also being investigated in combination with abemaciclib in the adjuvant setting (lidERA Breast Cancer substudy 1)

- ER+HER2- StageI-III (n=4170)
- 中間~high risk対象
- Giredestrant vs ET 最低5年間内服
- 主要評価項目：IDFS 中間解析結果

ER+ was defined as ≥ 1% positive cells by immunohistochemistry. * OncotypeDx ≥ 26 or high-risk MammaPrint. † Endocrine therapy with or without aromatase inhibitor and/or tamoxifen with or without luteinizing hormone-releasing hormone agonist. ‡ Medium risk: pN0 and primary tumor > 1 cm, or pN1 with low-risk biologic features (Grade 1/2 and Ki67 < 20% and tumor ≤ 5 cm and low score on genomic assay [if available]) and pN1 with low-risk biologic features (Grade 1/2 and Ki67 < 20% and tumor ≤ 5 cm and low score on genomic assay [if available]). § High risk: pN1 with high-risk biologic features (Grade 3, or Ki67 ≥ 20%, or tumor > 5 cm, or high score on genomic assay [if available]). DFS, disease-free survival; DRFI, distant relapse-free interval; ER+, estrogen receptor-positive; ET, endocrine therapy; IDFS, invasive disease-free survival; LRRFI, local relapse-free interval; OS, overall survival; RoW, rest of the world; SOC, standard-of-care. * with permission.

Baseline demographics and characteristics

	Giredestrant n = 2084	SOC ET n = 2086		Giredestrant n = 2084	SOC ET n = 2086
Median age, years (range)	54.0 (22–91)	54.0 (25–89)	ER status, n (%)[‡]		
Female sex, n (%)	2073 (99.5)	2075 (99.5)	Low-positive (1–10% of cells positive)	45 (2.2)	52 (2.5)
Race, n (%)			Positive (> 10% of cells positive)	2030 (97.8)	2031 (97.5)
American Indian or Alaska Native	77 (3.7)	62 (3.0)	AJCC stage at surgery, n (%)[§]		
Asian	461 (22.1)	467 (22.4)	I	254 (12.3)	283 (13.6)
Black or African American	50 (2.4)	50 (2.4)	II	1013 (49.0)	950 (45.7)
Other*	263 (12.6)	232 (11.1)	III	799 (38.7)	844 (40.6)
White	1233 (59.2)	1275 (61.1)	Nodal status, n (%) on surgical specimen		
Region, n (%)			pN0	449 (21.6)	441 (21.2)
Asia–Pacific	544 (26.1)	544 (26.1)	pN1	968 (46.6)	953 (45.7)
USA/Canada/Western Europe	860 (41.3)	905 (43.4)	pN2–3	662 (31.8)	691 (33.1)
Latin America/Africa/Eastern Europe	680 (32.6)	637 (30.5)	Risk, n (%)		
Menopausal status, n (%)[†]			High	1448 (69.5)	1447 (69.4)
Pre-menopausal	849 (41.0)	838 (40.4)	Medium	636 (30.5)	639 (30.6)
Post-menopausal	1220 (59.0)	1236 (59.6)	Previous chemotherapy, n (%)		
			No	396 (19.0)	450 (21.6)
			Yes	1688 (81.0)	1636 (78.4)

Baseline demographics and characteristics were balanced

Data cutoff: August 8, 2025. * "Other" refers to "multiple", "Native Hawaiian or Other Pacific Islander", "not reported", or "unknown". † Twenty-seven and 12 in the SOC ET arm). ‡ Twelve patients had unknown ER status (nine in the giredestrant arm and three in the SOC ET arm). § One patient in the giredestrant arm and eight in the SOC ET arm). || Six patients had unknown nodal status (five in the giredestrant arm and one in the SOC ET arm). ET, endocrine therapy; SOC, standard-of-care.

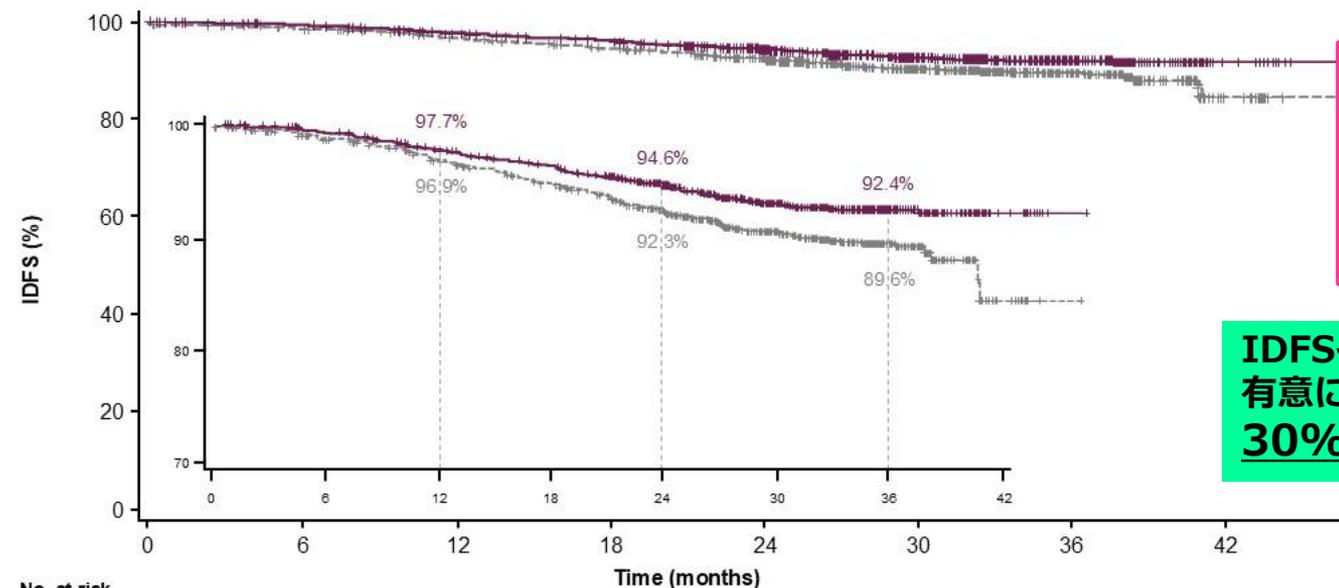
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- **Stage II-III 約8割**
- **腋窩リンパ節転移陽性 約8割**

Primary endpoint: IDFS

- 3年IDFS 92.4% vs 89.6%
- 観察期間中央値 32か月



	Giredestrant n = 2084	SOC ET n = 2086
Events, n (%)	140 (6.7)	196 (9.4)
Stratified HR (95% CI)	0.70 (0.57, 0.87); p = 0.0014*	

IDFSイベントはgirdetrant群で有意に少なく、再発や死亡リスクを30%減少させた

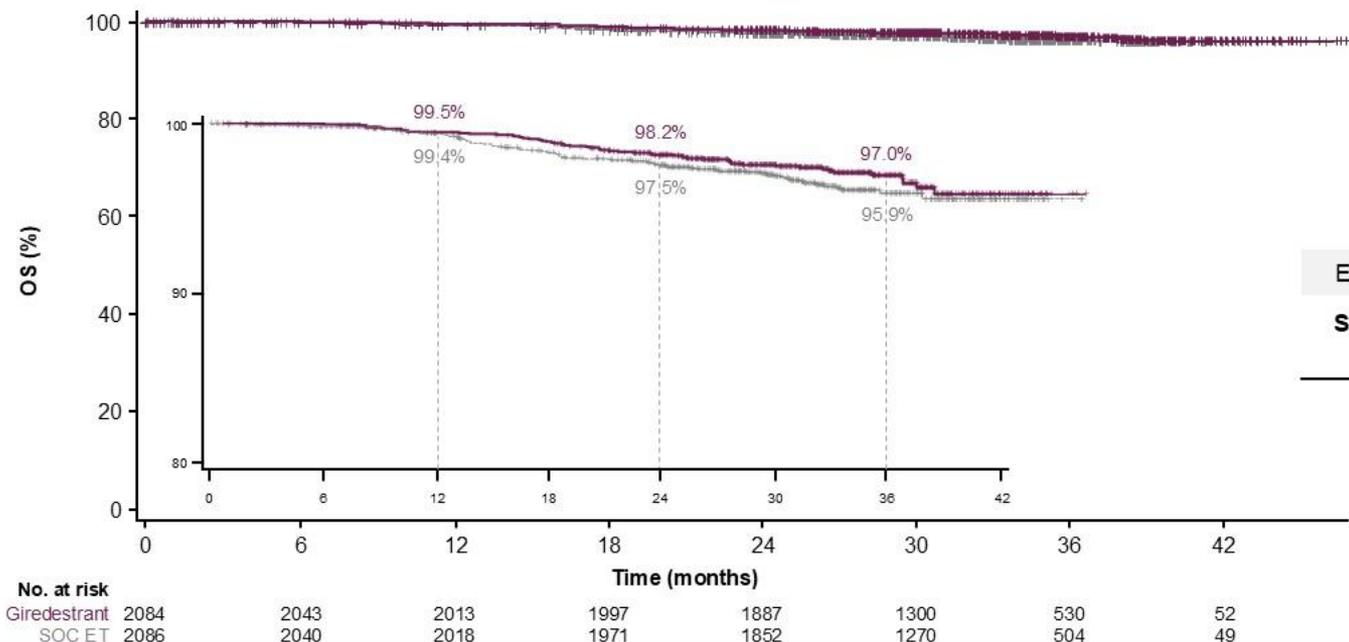
No. at risk	0	6	12	18	24	30	36	42
Giredestrant	2084	2021	1969	1932	1716	1088	345	26
SOC ET	2086	2016	1958	1898	1683	1048	325	25

Median follow-up: 32.3 months

**Statistically significant and clinically meaningful improvement in IDFS:
Giredestrant reduced the risk of invasive disease recurrence or death by 30% compared with SOC ET**

Data cutoff: August 8, 2025. Median follow-up, 32.4 months in the giredestrant arm and 32.3 months in the SOC ET arm; maximum follow-up, 46.6 months and 46.3 months, respectively. * Log-rank (2-sided). p-value boundary for IDFS interim analysis was 0.0217 (2-sided). AI, aromatase inhibitor; CI, confidence interval; ET, endocrine therapy; HR, hazard ratio; IDFS, invasive disease-free survival; SOC, standard-of-care.

Interim overall survival



➤ OSも良好な傾向あり
➤ 今後の解析に期待

	Giredestrant n = 2084	SOC ET n = 2086
Events, n (%)	57 (2.7)	71 (3.4)
Stratified HR (95% CI)	0.79 (0.56, 1.12); p = 0.1863*	

Median follow-up: 32.3 months

While OS data were immature, a clear positive trend was observed. OS testing will continue at future analyses

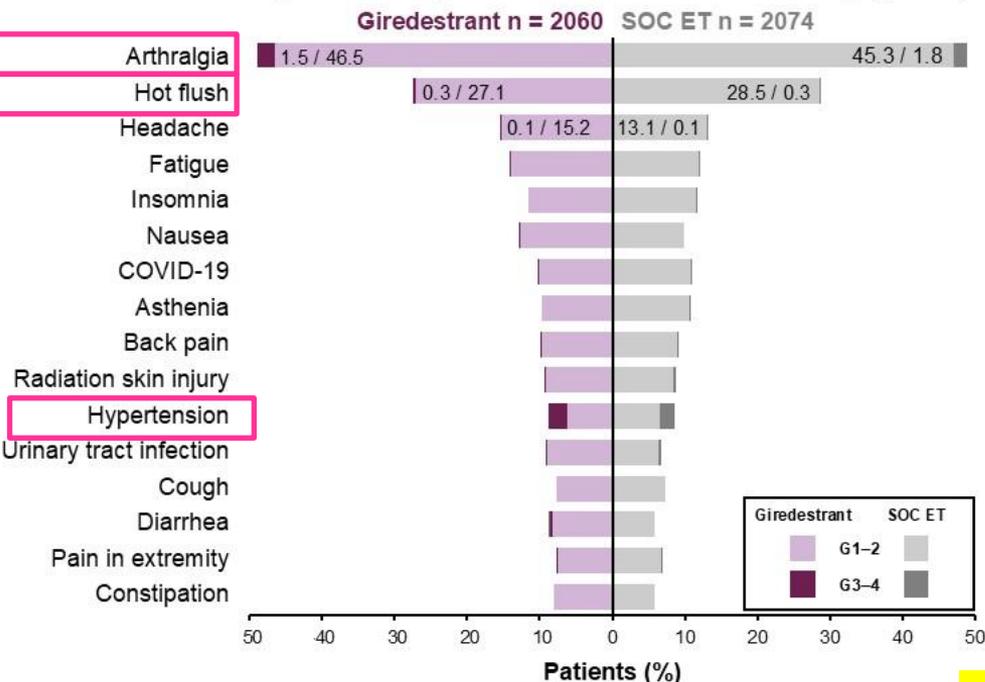
Data cutoff: August 8, 2025. Median follow-up, 32.4 months in the giredestrant arm and 32.3 months in the SOC ET arm; maximum follow-up, 46.6 months and 46.3 months, respectively. At the data cutoff, the 1st OS IA was conducted (maturity 31.2% with respect to the final OS analysis). * Log-rank (2-sided). p-value boundary for the 1st OS IA was 0.0001 (2-sided). Includes one death from a patient who was randomized but never dosed. Excludes one death from a patient with missing date of death. CI, confidence interval; ET, endocrine therapy; HR, hazard ratio; IA, interim analysis; OS, overall survival; SOC, standard-of-care.

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AE overview (safety-evaluable population)

Common TEAEs (≥ 7.5% of patients in either arm at any grade)



Selected AEs

	Giredestrant n = 2060	SOC ET n = 2074
Patients, n (%) with treatment discontinuations due to AEs		
Musculoskeletal disorders	38 (1.8)	92 (4.4)
• Arthralgias (PT)	32 (1.6)	76 (3.7)
Vasomotor disorders	2 (< 0.1)	18 (0.9)
• Hot flush (PT)	1 (< 0.1)	16 (0.8)

	Giredestrant n = 2060			SOC ET n = 2074		
	G1	G2	G3-4	G1	G2	G3-4
Patients, n (%) with selected AEs by medical concept*						
徐脈						
Bradycardia†	217 (10.5)	15 (0.7)	0	64 (3.1)	2 (< 0.1)	0
Venous thromboembolic events	4 (0.2)	12 (0.6)	2 (< 0.1)‡	3 (0.1)	7 (0.3)	7 (0.3)

Data cutoff: August 8, 2025. * Assessed as medical concepts using grouped terms; all other AEs by medical concept. † G2 events occurred in 17 patients; 13 resolved, four patients discontinued treatment and the events resolved. ‡ COVID-19 TEAE, treatment-emergent adverse event.

➤ 有害事象は関節痛、ホットフラッシュなどがmain
 ➤ 高血圧(Gr2)、徐脈(Gr1)が多く報告

Summary of lidERA trial

- ◆ 2000年代にAIが承認されて以来、lidERA試験は早期乳癌での新規内分泌療法の有効性を示した初めての試験
- ◆ 浸潤癌の再発、死亡リスクを約30%改善 (3年IDFS : 92.4% vs 89.6% Δ 2.8%)
→今後拡大する可能性あり
- ◆ 安全性プロファイルは良好 (関節痛、ホットフラッシュ、徐脈)
- ◆ CDK4/6阻害薬の併用、TS-1の選択肢、経済毒性(5年以上)が今後の課題

MonarchE	2y	IDFS	Δ 2.8%
NATALEE	3y	IDFS	Δ 2.7%

経口SERDが術後内分泌療法の新しい標準治療の選択肢になる可能性

DECEMBER 9–12, 2025

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**ER+HER2-の低リスクDCISを対象に手術を省略し、TAM内服を行う
有効性と安全性を評価した単群検証的試験 (JCOG1505)**

GS2-09. The single-arm confirmatory trial of tamoxifen alone without surgery for low-risk DCIS of the breast with ER-positive HER2-negative (LORETTA trial: JCOG1505)

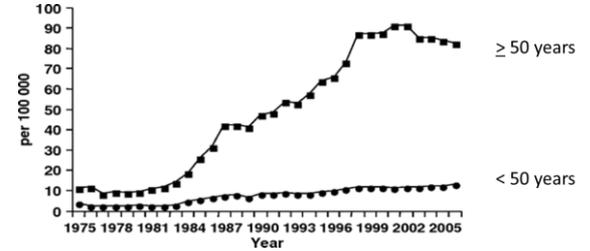
Hiroji Iwata,¹ Chizuko Kanbayashi,² Tatsuya Toyama,¹ Akiyo Yoshimura,³ Takehiko Sakai,⁴ Hiroko Bando,⁵ Kenichi Watanabe,⁶ Kaori Terata,⁷ Takashi Morimoto,⁸ Eriko Tokunaga,⁹ Takafumi Sangai,¹⁰ Miyuki Kitahara,¹¹ Takashi Kuwayama,¹² Akira Matsui,¹³ Tomomi Fujisawa,¹⁴ Fumikata Hara,⁴ Riku Kajikawa,¹⁵ Taro Shibata,¹⁵ Keita Sasaki,¹⁶ Tadahiko Shien¹⁷

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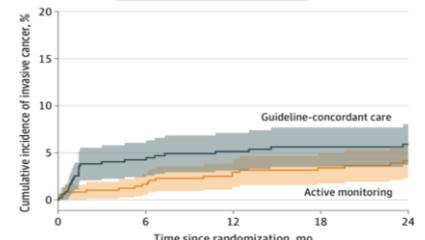
Background

- ◆ DICSの標準治療は外科的治療、部分切除の場合は温存乳房への放射線療法
- ◆ DCISは特に50歳以上で年々増加
- ◆ CQ : 全てのDCISに対して手術を行うことは必要か？
- ◆ COMET試験：低グレードDCISに対する手術省略の有効性を検証
ガイドライン通りの治療 vs Active monitoring

DCISの年齢調整罹患率の推移



浸潤癌の発生



2年での浸潤癌の発生割合

Active monitoring	Guideline-concordant care
4.2%	5.9%
19 of 484 patients	27 of 473 patients

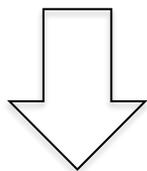
LORETTA試験

ER陽性低リスクDCISに対する内分泌療法単独の有効性を検証する試験

LORETTA (JCOG1505): Prospective Single-arm Confirmatory Trial

Low risk DCIS
(N=340)

No comedo necrosis,
Nuclear grade:1 or 2,
ER+ and HER2-



TAM
(20 mg/day)
for 5 years

Safety Assessments (5 years until TAM completion)

- The first 6M: every 3M
- Thereafter: every 6M

➤ 40歳以上、低リスクDCIS

- ER強陽性HER2陰性
- Comedo壊死なし
- 画像診断で2.5cmを超えない
- VAB 6本以上、CNB 3-5本以上

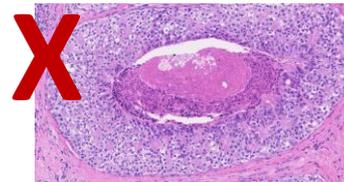
➤ TAM 5y内服→経過観察

➤ 主要評価項目：温存乳房内浸潤癌発生割合

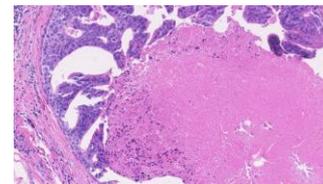
Efficacy Assessments (10 years)

- The first year: every 6M
- Thereafter: annually

Comedo necrosis



No comedo necrosis



Patient Characteristics

- Grade1 約7割
- 腫瘍径 2.0cm未満が8-9割

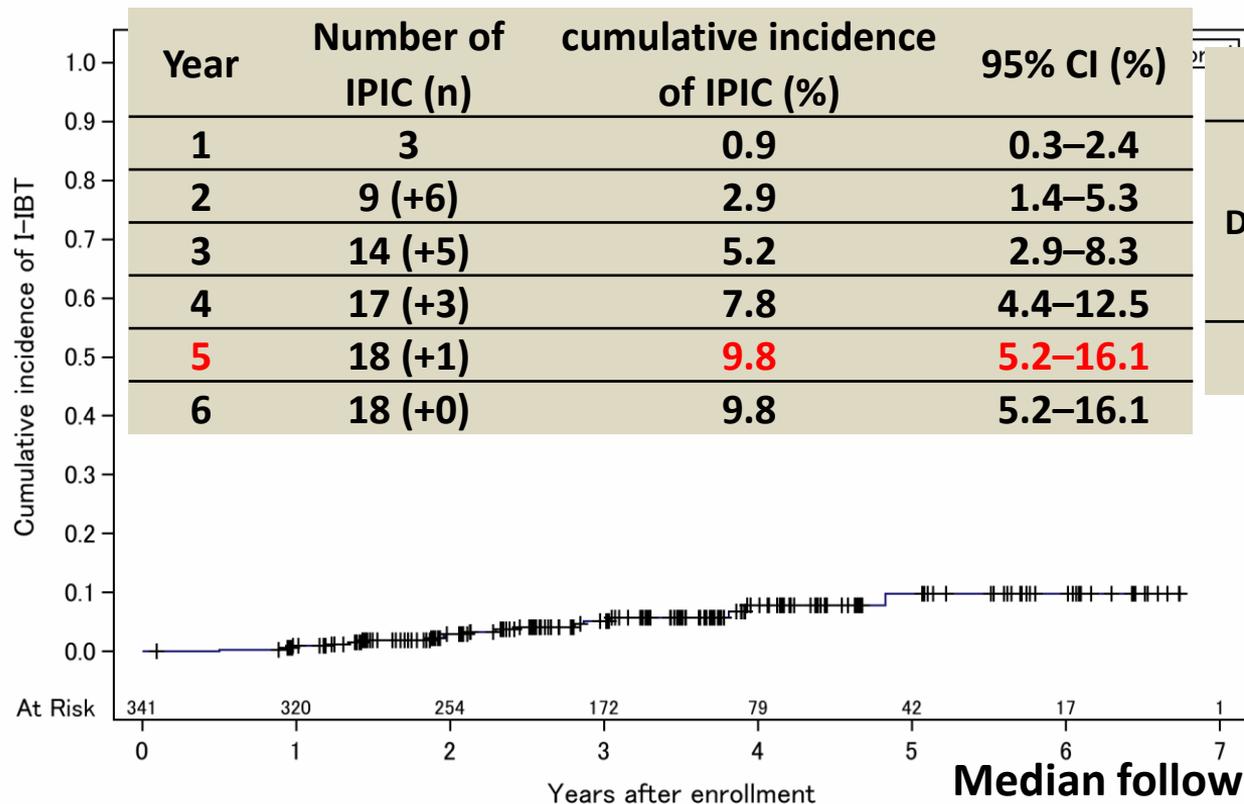
		N=341 (%)
Age	Median (range)	53 (40-85) year
PS	0	340
	1	1
Nuclear Grade (NG)	1	234 (68)
	2	107 (32)
	3	0
Menopausal status	Pre	162 (48)
	Post	173 (51)
	Unknown	6
ER	Negative	0
	Positive (weak)	0
	Positive (strong)	341 (100)
PgR	Negative	11 (3)
	Positive (weak)	17 (5)
	Positive (strong)	313 (92)

		N=341
HER2 status (IHC)	0	66 (19)
	1+	186 (55)
	2+	76 (22)
	3+	0
	Not evaluated*	13 (4)
Tumor size (MMG)	<2.0 cm	315 (93)
	≥2.0 cm	26 (7)
Tumor size (US)	<2.0 cm	319 (94)
	≥2.0 cm	22 (6)
Tumor size (MRI)	<2.0 cm	265 (78)
	≥2.0 cm	76 (22)
Calcification on MMG	absence	111 (33)
	presence	230 (67)

*HER2 status (FISH/DISH) : negative

Primary Endpoint: 5-year IPIC

- 5年の浸潤癌累積発生割合：9.8%
- 当初設定していた閾値(7%)を超えたため主要評価項目は達成されず



Competitive risk (N=16)	
Death (unrelated)	Ipsilateral mastectomy (without invasive cancer)
1	15

Primary endpoint: Not met
 (The upper limit of the confidence interval exceeded 7.0%)

Median follow up: 36.0 mo (0.0-80.4 mo)

Subgroup Analysis of the Cumulative Incidence of Invasive Ipsilateral Breast Tumor

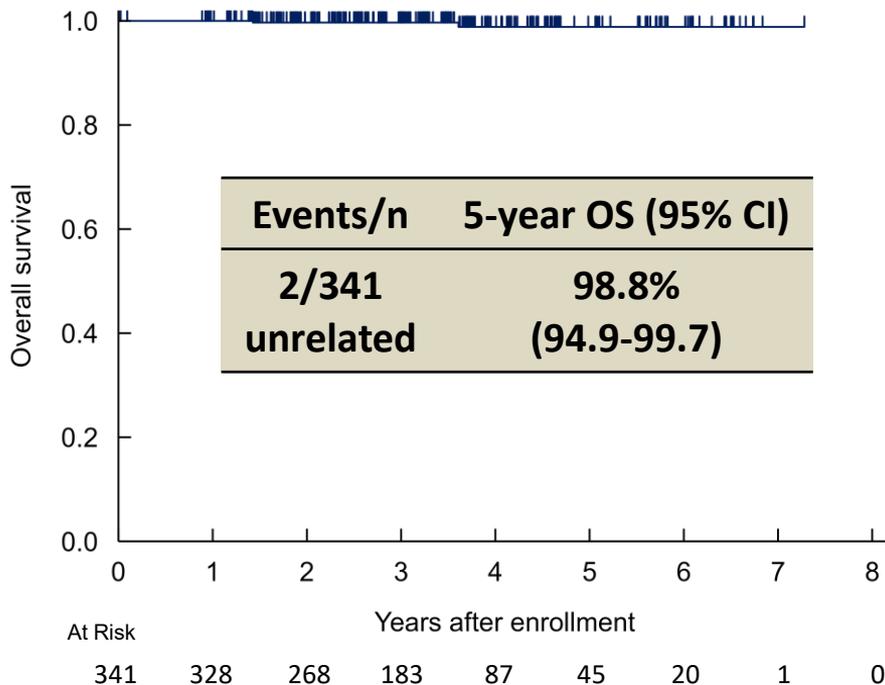
➤ 浸潤癌発生と関連するリスク因子：腫瘍径2.0cm以上

Factor	Level	Events/N	5-year cumulative incidence of IPIC (95% CI)	HR (95% CI)	Two-sided p value
Age	<50	6/117	8.7% (3.0–18.3)	1	
	≥50	12/224	10.9% (4.4–20.8)	1.085 (0.404–2.910)	0.8713
Nuclear grade	NG1	11/234	10.5% (4.4–19.9)	1	
	NG2	7/107	8.8% (3.7–16.7)	1.485 (0.570–3.868)	0.4187
HER2	0	5/66	8.7% (3.1–17.9)	1	
	1+	11/186	10.9% (4.5–20.6)	0.831 (0.288–2.399)	0.7318
	2+	2/76	8.3% (1.4–23.8)	0.343 (0.070–1.684)	0.1876
PgR	negative	1/11	45.5% (0.0–93.7)	1	
	weak	1/17	7.7% (0.4–30.3)	0.691 (0.052–9.191)	0.7798
	strong	16/313	8.1% (4.5–13.2)	0.597 (0.101–3.523)	0.569
Tumor diameter (MMG)	<2.0 cm	14/315	9.0% (4.3–15.9)	1	
	≥2.0 cm	4/26	20.1% (5.2–41.9)	3.579 (1.150–11.140)	0.0278
Tumor diameter (US)	<2.0 cm	15/319	9.0% (4.5–15.6)	1	
	≥2.0 cm	3/22	20.8% (3.7–47.3)	3.630 (1.040–12.676)	0.0433
Tumor diameter (MRI)	<2.0 cm	11/265	8.3% (3.7–15.4)	1	
	≥2.0 cm	7/76	12.9% (5.4–24.0)	2.523 (0.988–6.440)	0.053
Calcification on MMG	absence	2/111	-	1	
	presence	16/230	11.3% (6.1–18.1)	2.939 (0.682–12.670)	0.1481

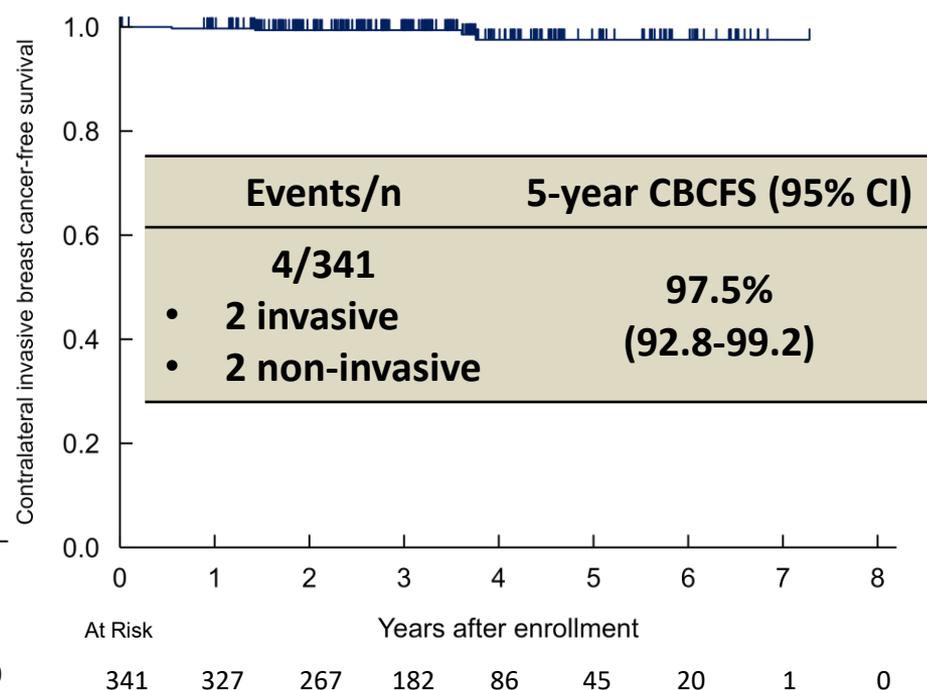
Secondary Endpoints

➤ 乳癌関連死亡は認めなかった

Overall Survival (OS)

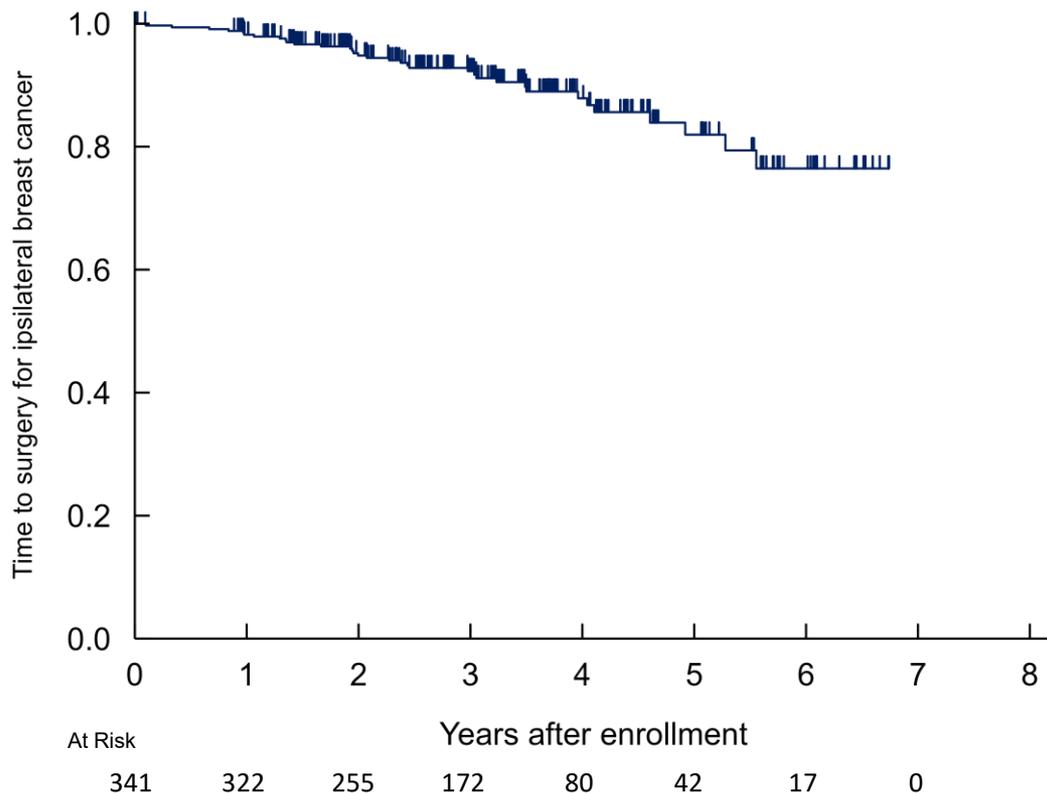


Contralateral breast cancer-free survival (CBCFS)



Surgery-free Survival

➤ 5年経過時点で8割が手術を回避できた

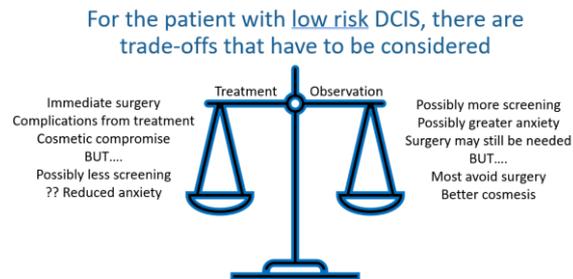


Year	Surgery free survival(%)	95% CI (%)
1	98.2	96.1 – 99.2
2	94.8	91.7 – 96.8
3	92.3	88.4 – 94.9
4	87.9	82.3– 91.8
5	82.0	73.3 – 88.0
6	76.4	64.6 – 84.8

Invasive cancer: 17 cases
Non-invasive cancer: 15 cases
Unrelated death: 2 cases

Summary of LORETTA trial

- ◆ 5年累積同側乳房内浸潤癌の発生割合は9.8%で主要評価項目達成ならず
- ◆ 5年での手術省略が約8割と一定のbenefitもある
- ◆ DCISの過剰診断・過剰治療の可能性もあり
- ◆ より長期の観察期間の結果が求められる(COMET試験)



Different patients will have different preferences –there is not a right choice

COMET試験
2y浸潤癌発生割合 4.2%

**慎重に選択された小さな低リスクDCISでは非手術治療の可能性を示唆
最終的には患者の希望や価値観に基づく治療選択が重要
DCISはすぐ手術から、リスクに応じて治療を考える治療戦略も選択肢**



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AYA世代の乳がんサバイバーを対象とした支援アプリによる介入の
QOLに関するランダム化比較試験 (YES trial)

Randomized Controlled Trial of Young, Empowered & Strong (YES), an mHealth Intervention for Adolescents and Young Adults with Breast Cancer

Ann H. Partridge, Noah Graham, Kate E. Dibble, Nabihah Tayob, Yue Zheng, Ella J. Johnson, Chloe Hery, Kayla Williams, Sonja Darai, Eric F. Harden, Ashley P. Davenport, Cecilia DeGraffinreid, Timiya S. Nolan, Magnolia Contreras, Noel Roma, Sandra A. Mitchell, Deborah Schrag, Dawn L. Hershman, Shoshana M. Rosenberg*, Michelle J. Naughton* (*Contributed equally)



THE OHIO STATE UNIVERSITY



Background

- ◆ 乳がんはAYA世代で最も多くみられる悪性腫瘍、罹患率は世界的に増加
- ◆ AYA世代の乳がんサバイバーは、不安、妊孕性、社会復帰など、深刻な症状と不安を抱えている
→長期的なQOLにも影響する問題が多い
- ◆ 日常の診療のみでは継続的なサポートが難しい

YES試験

乳癌サバイバーが自分の症状や心理状態を自己管理して、医療従事者の管理なしに教育と支援を受けられるスマートフォンを用いたmHealthツール
「YES (Young, Empowered & Strong)」を設計

YES Study Schema

SETTING: 3 sites (Dana-Farber Cancer Institute, The Ohio State University, and Columbia University Medical Center)

- AYA世代のサバイバー360名対象
- YESのePRO導入 vs 通常follow

ELIGIBILITY:

- Female
- Age 15-39 years at diagnosis of stage 0-III BC
- <3 years from end of active treatment
- No evidence of BC recurrence
- English speaking

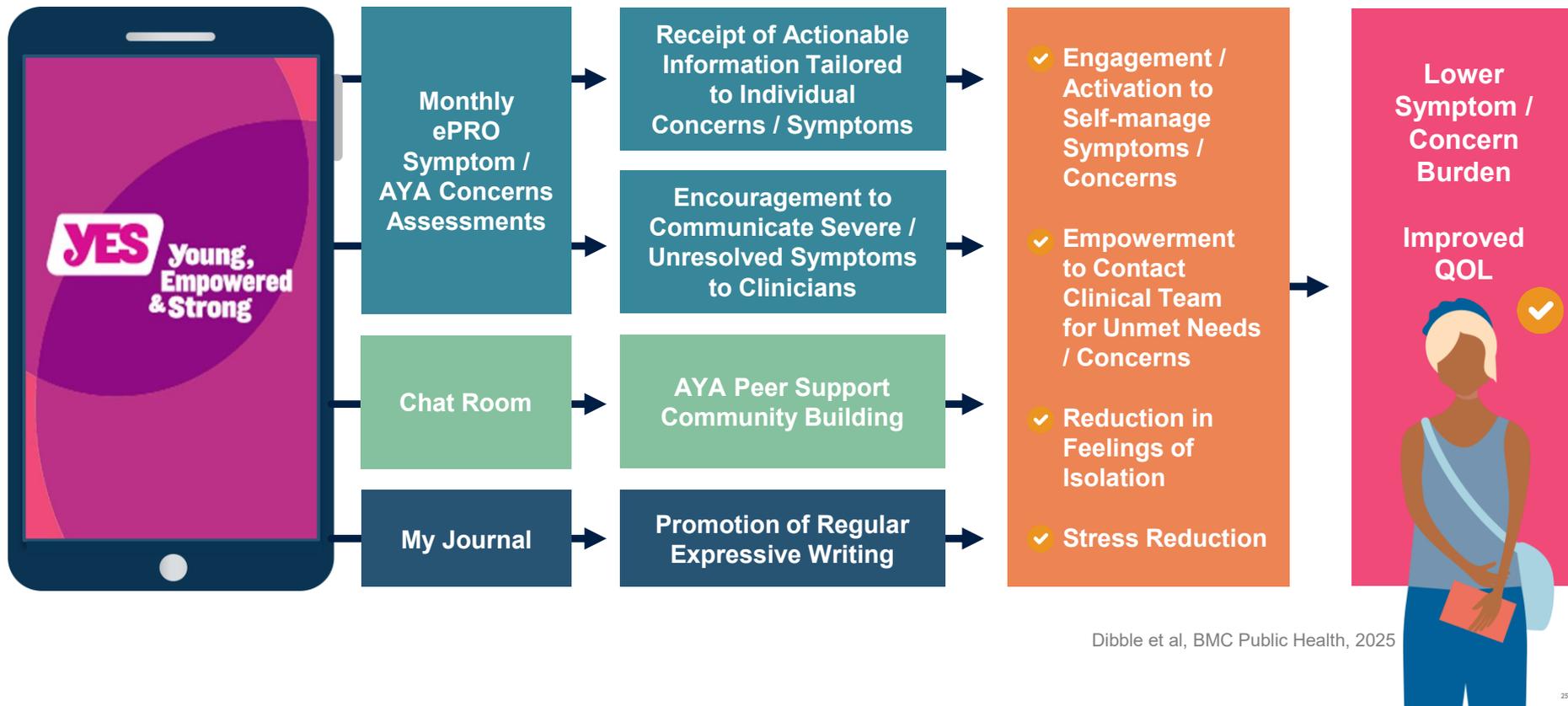
STUDY ENDPOINTS:

- Primary outcome – QOL at 6 months
- Secondary outcomes – symptoms at 6 months



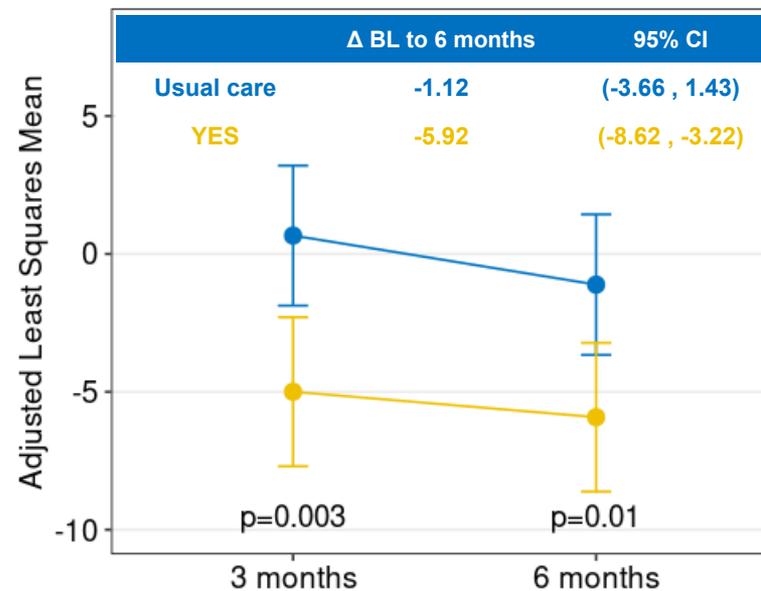
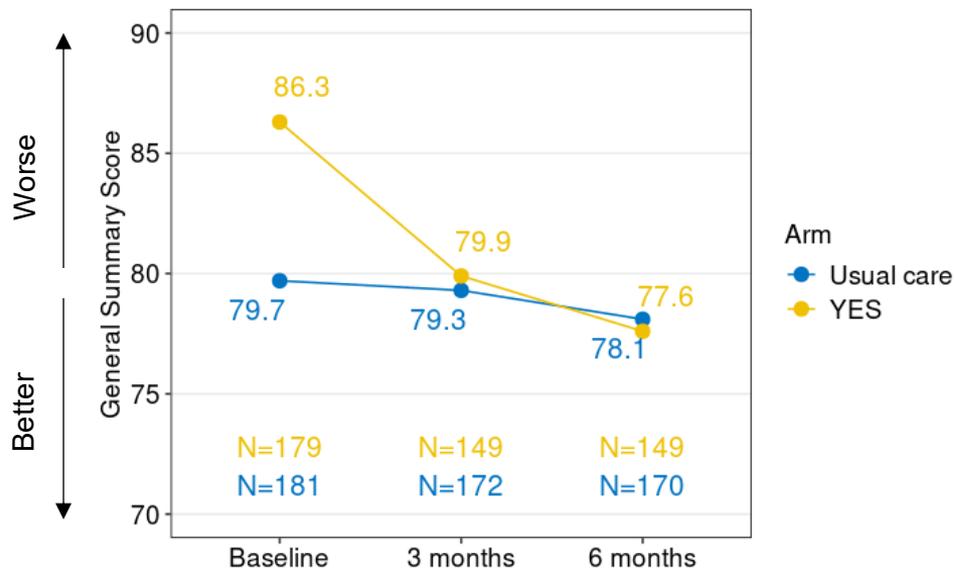
YES Portal Components

- 一人一人に合わせたサポートを提供
例：不安→マインドフルネスの指導
- 自身の経時的変化の視認
- チャットルームによるサポート



YES Study Primary Outcome: General QOL (QLACS)

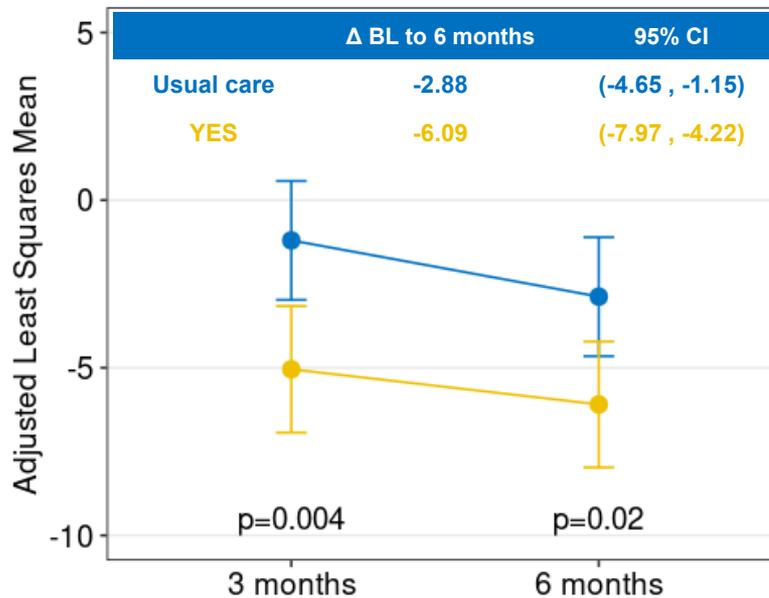
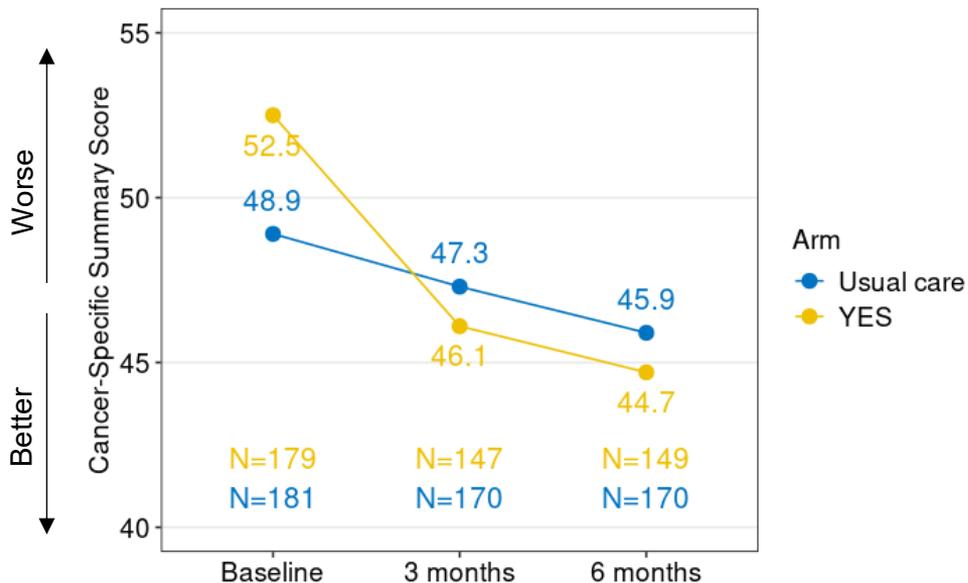
➤ 3か月後、6か月後の一般的なQOLを有意に大幅に改善



Patients randomized to **YES vs. Usual Care** had significantly greater improvement of General QOL at both 3 and 6 months

YES Study Primary Outcome: Cancer-Specific QOL (QLACS)

➤ 3か月後、6か月後のがん特異的なQOLを有意に大幅に改善



Patients randomized to **YES vs. Usual Care** had significantly greater improvement of Cancer-specific QOL at both 3 and 6 months

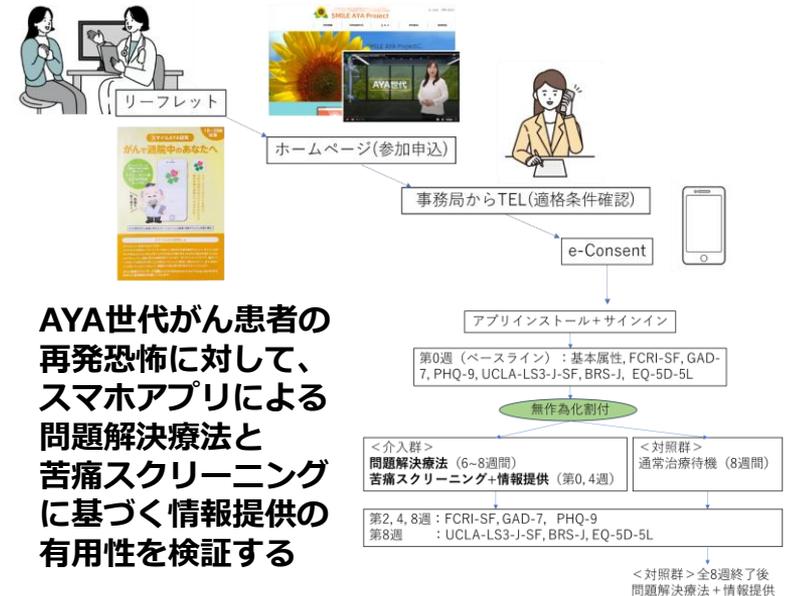
Summary of YES trial

- ◆ AYA世代に対するスマートフォンを用いたアプリによる支援介入は6か月時点での全般的/がん特異的なQOLを大幅に改善
- ◆ 症状負担も軽減
- ◆ AYA世代のサバイバーの不安はつきない
(妊孕性や仕事、将来、再発不安など)

□ AYA乳がんサバイバーのQOLを改善するデジタルサポートツールの重要性

□ 医療従事者が全てを介入するだけでないサバイバーシップケアの新しいモデル

SMILE AYA研究 (当院植弘 奈津恵Dr)



AYA世代がん患者の再発恐怖に対して、スマホアプリによる問題解決療法と苦痛スクリーニングに基づく情報提供の有用性を検証する



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閉経前EBC患者における妊孕性に関するアプローチ
オンコフェルティリティ・ケアを検討した最大規模の
前向き多施設コホート研究

GS3-02: Fertility and Ovarian Function Preservation in Premenopausal Women with Early Breast Cancer: Results from the Multicenter Prospective PREgnancy and FERtility (PREFER) Study

Matteo Lambertini^{1,2}, Eva Blondeaux³, Valeria Fontana³, Saverio Cinieri⁴, Ida Paris⁵, Anna Maria Vandone⁶, Claudia Andreetta⁷, Valentina Sini⁸, Icro Meattini^{9,10}, Carmelo Bengala¹¹, Maria Vittoria Dieci^{12,13}, Luca Livraghi¹⁴, Raffaella Cioffi¹⁵, Domenico Bilancia¹⁶, Federico Sottotetti¹⁷, Silvia Mura¹⁸, Angela Denaro¹⁹, Diletta Favero²⁰, Grazia Arpino²¹, Francesca Poggio², Maria Grazia Razeti², Edoardo Chiappe^{1,2}, Francesca Bruzzone^{1,2}, Luca Arecco²², Claudia Massarotti^{23,24}, Paola Vanella⁶, Francesco Pavese⁵, Laura Orlando⁴, Fabio Puglisi^{25,26}, Paola Anserini²³, Luca Boni³, Lucia Del Mastro^{1,2}

¹Department of Internal Medicine and Medical Specialties (DIMI), School of Medicine, University of Genova, Genoa, Italy; ²Department of Medical Oncology, U.O. Clinica di Oncologia Medica, IRCCS Ospedale Policlinico San Martino, Genoa, Italy; ³Clinical Trial Unit, Epidemiologia Clinica, IRCCS Ospedale Policlinico San Martino, Genoa, Italy; ⁴Medical Oncology Department and Breast Unit, Perrino Hospital, Brindisi, Italy; ⁵Division of Gynecologic Oncology, Department of Woman and Child Health and Public Health, Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Rome, Italy; ⁶Breast Unit, Azienda Ospedaliera Santa Croce e Carle, Cuneo, Italy; ⁷Department of Oncology, Azienda Sanitaria Universitaria Friuli Centrale, Udine, Italy; ⁸Department of Medical Oncology, Centro Oncologico Santo Spirito-Nuovo Regina Margherita, ASL Roma 1, Rome, Italy; ⁹Department of Experimental and Clinical Biomedical Sciences "M. Serio", University of Florence, Florence, Italy; ¹⁰Radiation Oncology Unit & Breast Unit, Oncology Department - Florence University Hospital, Florence, Italy; ¹¹Medical Oncology 1, Azienda Ospedaliero-Universitaria Pisana, Pisa, Italy; ¹²Dipartimento di Scienze Chirurgiche, Oncologiche e Gastroenterologiche, Università di Padova, Padova, Italy; ¹³Oncologia 2, Istituto Oncologico Veneto IOV-IRCCS, Padova, Italy; ¹⁴Department of Medical Oncology, Hospital of Prato, Azienda USL Toscana Centro, Prato, Italy; ¹⁵Department of Obstetrics and Gynecology, IRCCS San Raffaele Hospital, Milan, Italy; ¹⁶Oncologia Medica, Azienda Ospedaliera S. Carlo, Potenza, Italy; ¹⁷UO Oncologia Medica ICS Maugeri IRCCS, Pavia, Italy; ¹⁸Oncologia Medica, AOU Ospedale SS Annunziata, Sassari, Italy; ¹⁹Oncologia Medica, Ospedale Maggiore di Trieste, Trieste, Italy; ²⁰Candiolo Cancer Institute, FPO-IRCCS, Candiolo (Turin), Italy; ²¹University of Naples "Federico II", Naples, Italy; ²²Université libre de Bruxelles (ULB), Hôpital Universitaire de Bruxelles (H.U.B.), Clinical Trials Unit, Institut Jules Bordet, Brussels, Belgium; ²³Clinica Ostetrica e Ginecologica, IRCCS Ospedale San Martino, Genoa, Italy; ²⁴Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia e Scienze Materno Infantili, University of Genova, Genoa, Italy; ²⁵Department of Medical Oncology, Centro di Riferimento Oncologico di Aviano (CRO) IRCCS, Aviano, Italy; ²⁶Department of Medicine, University of Udine, Udine, Italy

December 12th, 2025
San Antonio, TX (USA)

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Background

- ◆ 化学療法の適応となる閉経前女性すべてにおいて、オンコフェルティリティ・カウンセリング（がんと妊孕性に関するサポート）が推奨されている
- ◆ 妊孕性温存としては、卵子／胚凍結／卵巣組織凍結が標準的戦略であり、卵巣機能温存目的として化学療法中のGnRHアゴニスト（GnRHa）使用が推奨されている
- ◆ しかし、卵巣機能および／または妊孕性温存戦略の実臨床における受容率や拒否理由に関するデータ、安全性に関するエビデンスは限られている

PREFER試験（イタリアの試験）

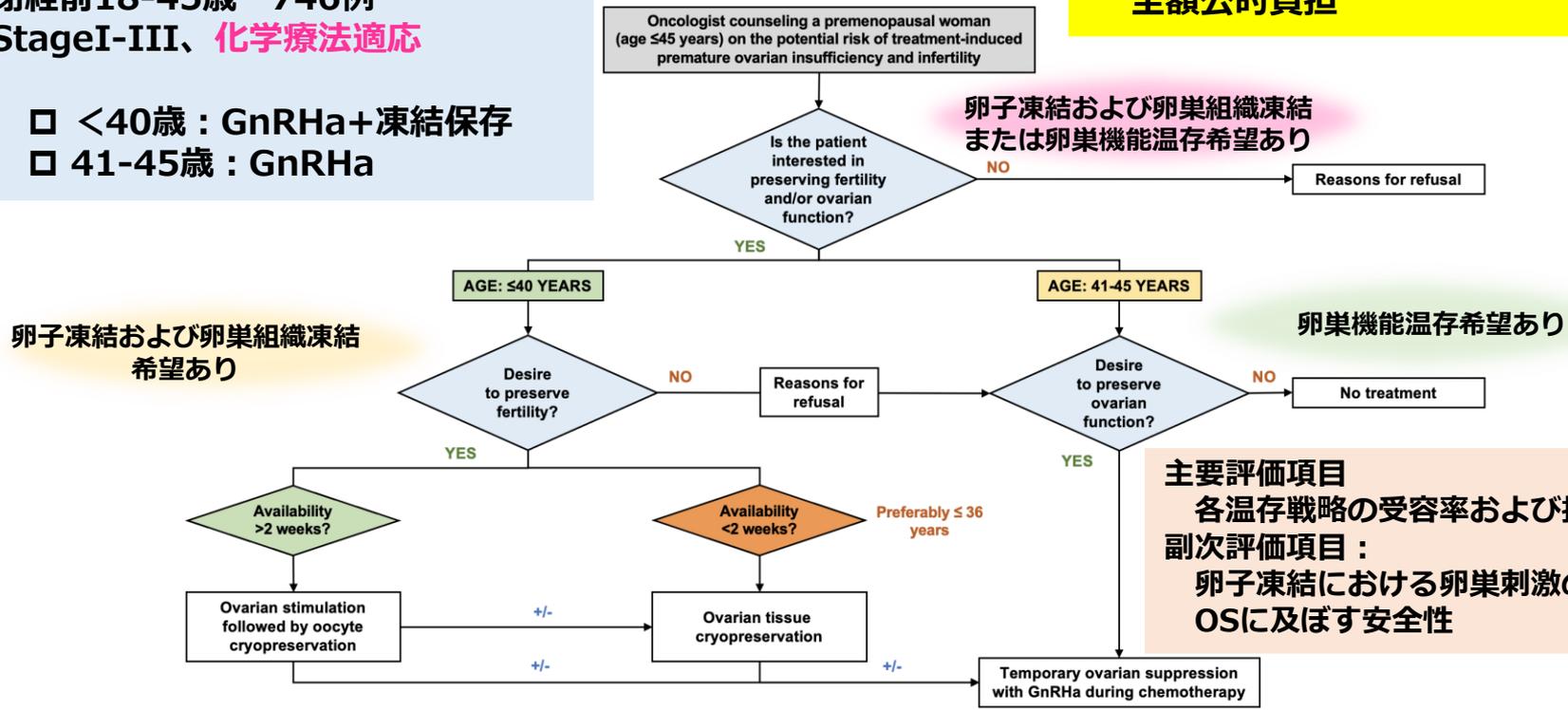
オンコフェルティリティ領域におけるケアの最適化と知見の向上を目的として、2012年に早期乳癌の閉経前女性を対象とした全国プログラムとして立ち上げられた

- ◆ GIM study group 2012-2024年
- ◆ イタリア23施設 前向きコホート
- ◆ 閉経前18-45歳 746例
- ◆ Stage I-III、**化学療法適応**

- <40歳 : GnRHα+凍結保存
- 41-45歳 : GnRHα

Study flow

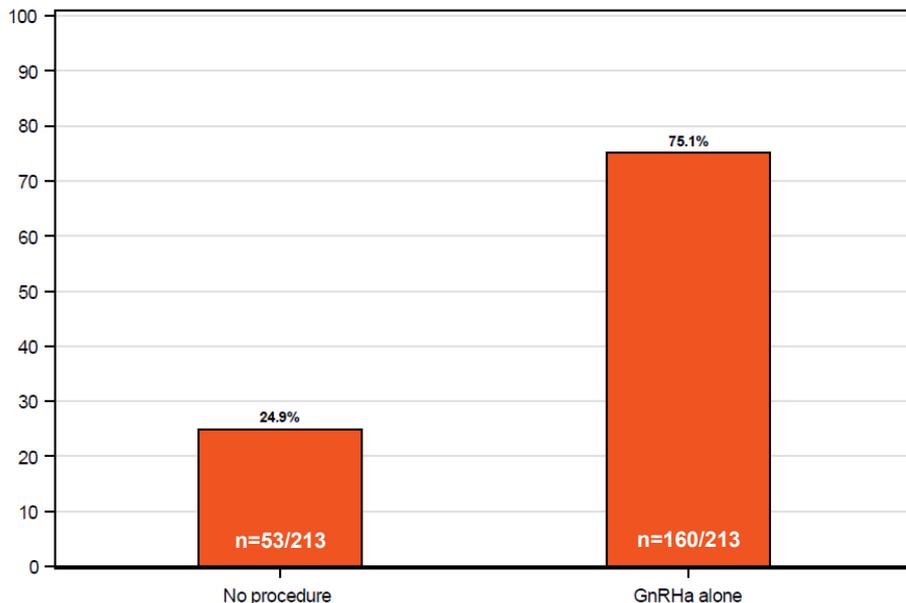
- イタリアでは胚凍結は法律上禁止
- イタリアの国民保険サービスにより全額公的負担



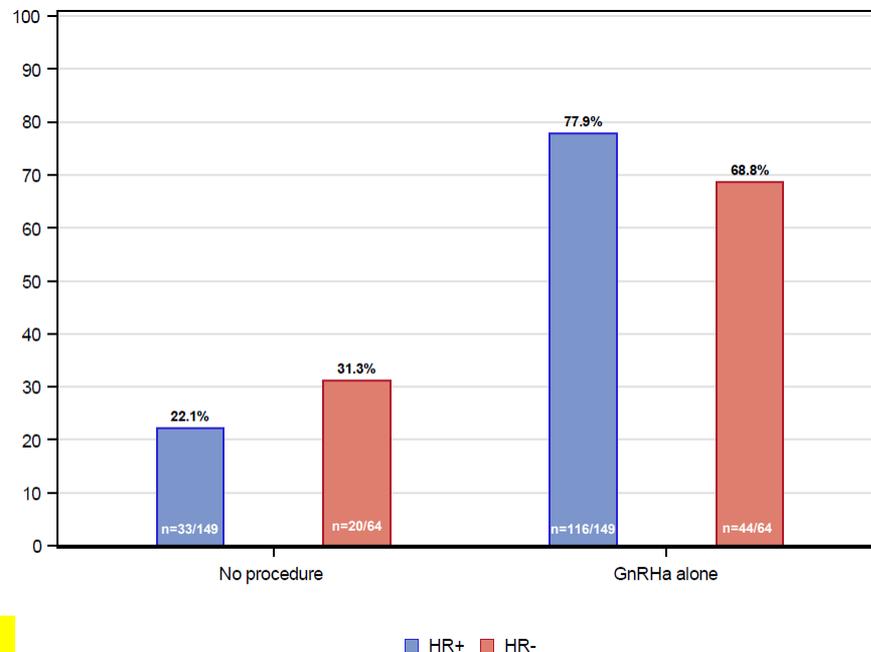
主要評価項目
 各温存戦略の受容率および拒否理由
副次評価項目：
 卵子凍結における卵巣刺激のDFSやOSに及ぼす安全性

Study Results – Patients with 41 - 45 years

Percentage of acceptance (overall)



Percentage of acceptance by hormone receptor status

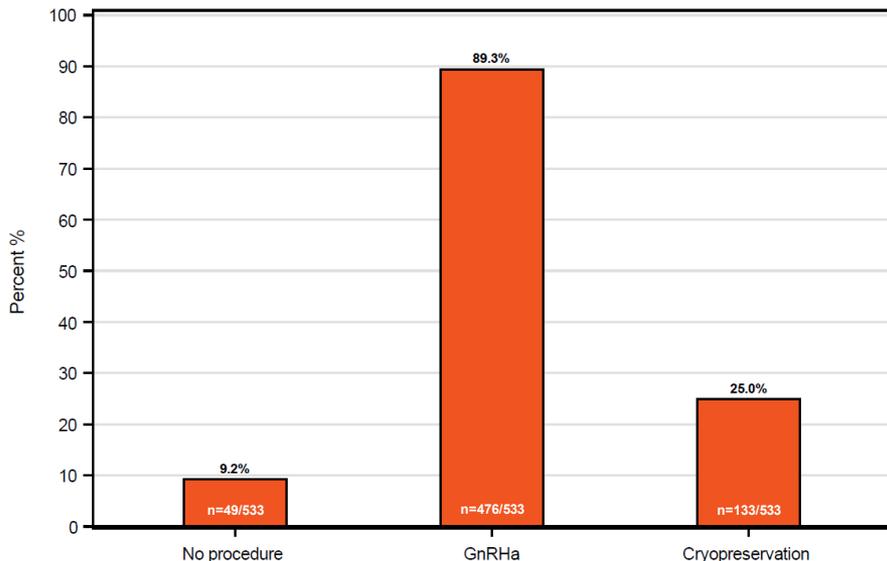


- 41-45歳群では160例 (75.1%) がGnRHaを受容
- 拒否理由の多くも家族形成の完了 (18例、3.4%)

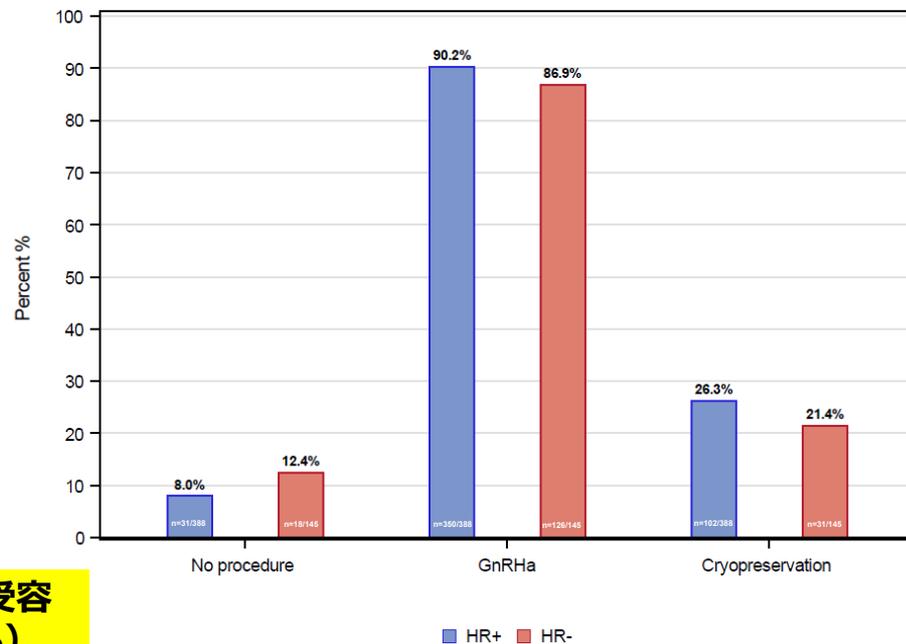
main reason for refusal: completion of family planning (n=24, 11.3%)

Study Results – Patients with ≤ 40 years

Percentage of acceptance (overall)



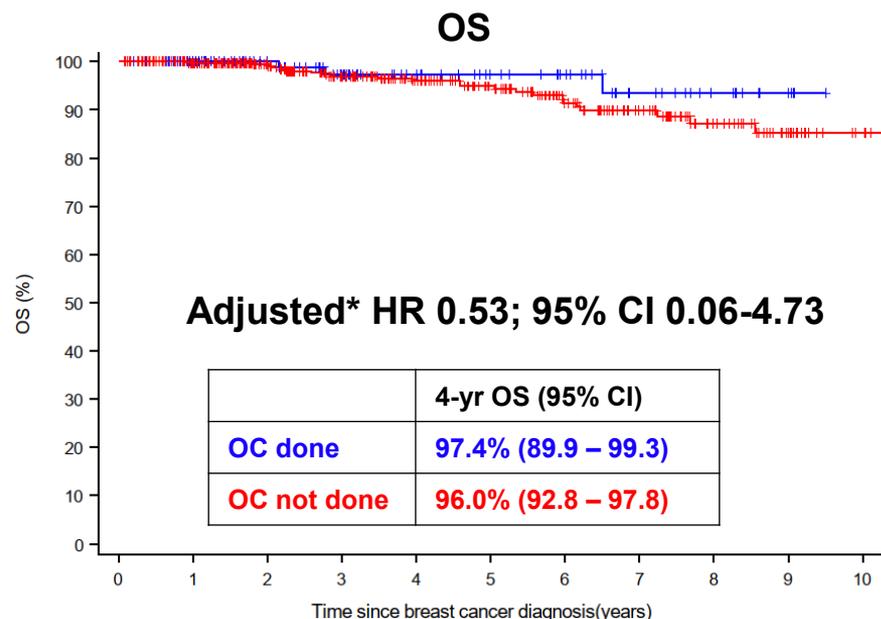
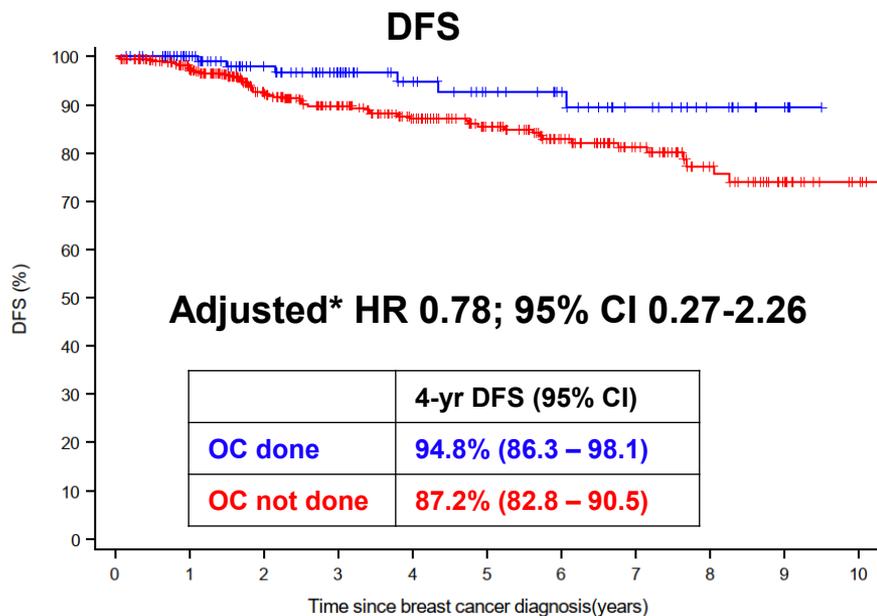
Percentage of acceptance by hormone receptor status



- 40歳以下群では476例（89.3%）がGnRHαを受容
- 拒否理由の多くも家族形成の完了（18例、3.4%）

Main reason for refusal: completion of family planning (n=18, 3.4%)

Study Results – Patients with ≤ 40 years



	0	1	2	3	4	5	6	7	8	9	10
Done	127	106	83	62	47	37	30	19	12	6	0
Not done	406	357	272	225	183	145	111	78	48	28	16

	0	1	2	3	4	5	6	7	8	9	10
Done	127	106	84	62	48	39	32	19	12	6	0
Not done	406	363	290	242	201	159	119	84	53	30	16

*Strata: age, year of diagnosis, grade, nodal status, timing of chemotherapy

- 追跡期間中央値は3.8年
- 卵巣刺激はDFS、OSのいずれにおいても予後悪化と関連しなかった

Summary of PREFER trial

- ◆ 早期乳癌の閉経前女性の大多数が、卵巣機能温存を目的として化学療法中のGnRHアゴニスト投与を受容していた

40歳以下:89.3%、41-45歳:75.1%

日本 卵子凍結保存：約30-35%
実施数は増加
(Japan Oncofertility Registry, JOFR)

- ◆ 40歳以下の4人に1人（25.0%）が卵子凍結による妊孕性温存を選択した
卵子凍結選択における関連因子：若年、未経産、診断年が新しい、低グレード
- ◆ 卵子凍結のための卵巣刺激は、予後を悪化させることはなかった

早めの妊孕性温存に関する情報提供の重要性



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乳癌検診にも個人のリスクに応じた検診アプローチが必要ではないかを検証したWISDOM試験

Risk-based breast cancer screening is safe, preferred by women and identifies highest risk individuals: Results from WISDOM 1.0

Laura J. Esserman, MD, MBA

University of California, San Francisco, San Francisco, CA



athena
BREAST HEALTH NETWORK

Wisdom
thewisdomstudy.org

L. J. Esserman¹, A. S. Fiscalini¹, A. Naeim², L. J. van 't Veer¹, A. Kaster³, M. T. Scheuner¹, A. Z. LaCroix⁴, A. D. Borowsky¹, H. Anton-Culver⁵, O. I. Olopade⁶, J. N. Esserman⁷, R. Lancaster⁸, Y. Shieh⁹, E. Ziv¹, J. A. Tice¹, L. Madlensky⁴, A. Blanco¹, K. S. Ross¹, D. L. Goodman⁵, H. L. Park⁵, R. A. Hiatt¹, N. Wenger², B. A. Parker⁴, D. M. Heditsian¹, S. A. Brain¹, V. Lee¹, K. F. Rhoads¹⁰, K. Fergus¹, K. Blum¹, L. P. Sabacan¹, M. Eklund¹¹

Background and study design

- ◆ 現在の乳癌検診は全員が同じ頻度（40歳以上、2年に1度のMG）
- ◆ 乳癌も人それぞれ違いがあるように、乳癌リスクも個人個人で異なる可能性あり
- ◆ リスクが低い人→不要な被ばくや疑陽性による精神的負担を回避
リスクが高い人→検査不足、見逃し、中間期癌のリスク

WISDOM試験

個別のリスクに応じた検診は安全か？

- 臨床リスクモデル
(背景、乳房濃度など)
- 9遺伝子パネル検査
(BRCA1/2、TP53、PTENなど)
- ポリジェニックリスクスコア
(75-126個のSNPを組み合わせたスコア)



RISK FACTORS



Breast Density
(mammogram)



Health Questionnaire
family history, age, race/
ethnicity, comorbidities,
previous biopsies



Genomic Profiling
9 gene panel, SNPs
Saliva collection

SCREENING RECOMMENDATIONS

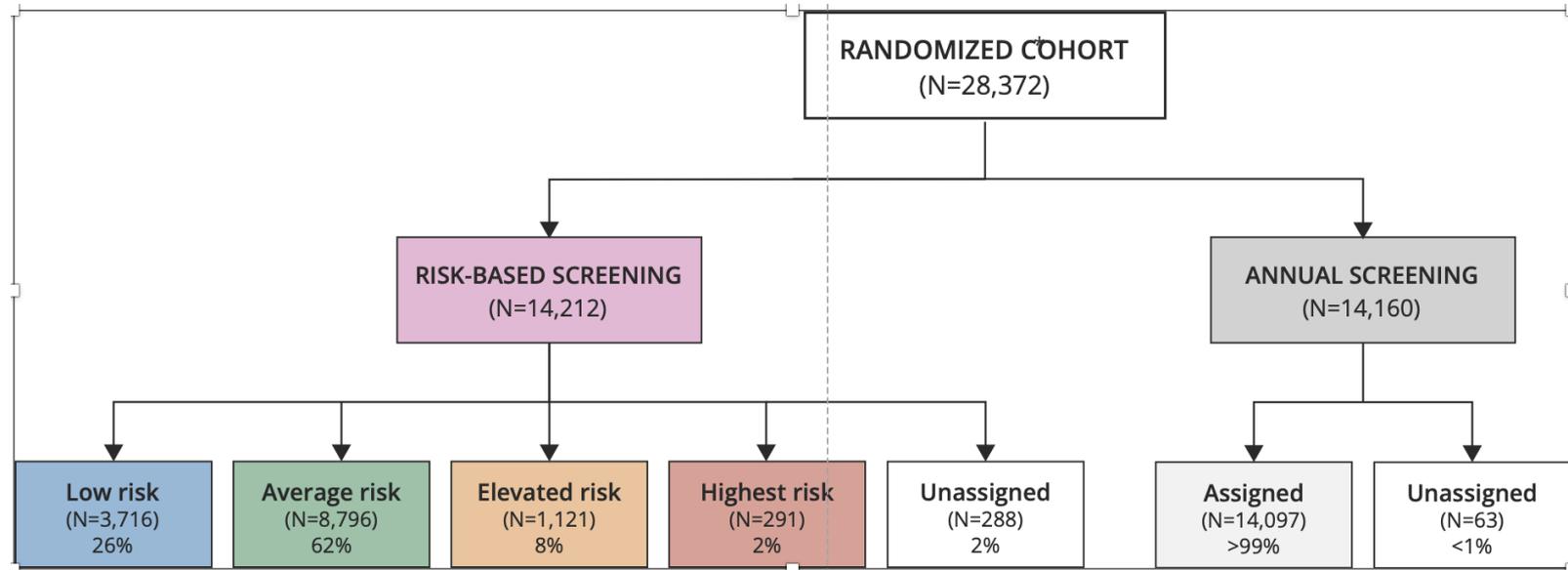
LOWEST RISK
No Screening until age 50

AVERAGE RISK
Biennial mammograms

ELEVATED RISK
Annual mammograms
+ 1:1 Breast Health Specialist
+ Breast Health Decisions Tool

HIGHEST RISK
Annual mammograms + MRI
+ 1:1 Breast Health Specialist
+ Breast Health Decisions Tool

Randomized Cohort Results



10% high risk

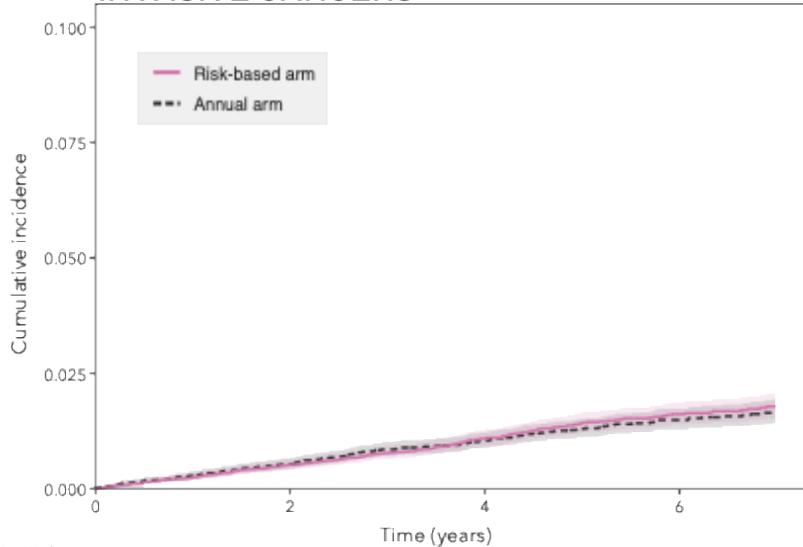
➤ 9割はAverageまたはlow risk

HIGHEST Risk
ELEVATED Risk
AVERAGE Risk
LOW Risk

MRI + 6か月ごとのMG+カウンセリング
毎年MG
2年に1度のMG
50歳まで または risk ≥ 1.3%まで不要

Number of cancers are the same but stratified by risk

INVASIVE CANCERS



At Risk:

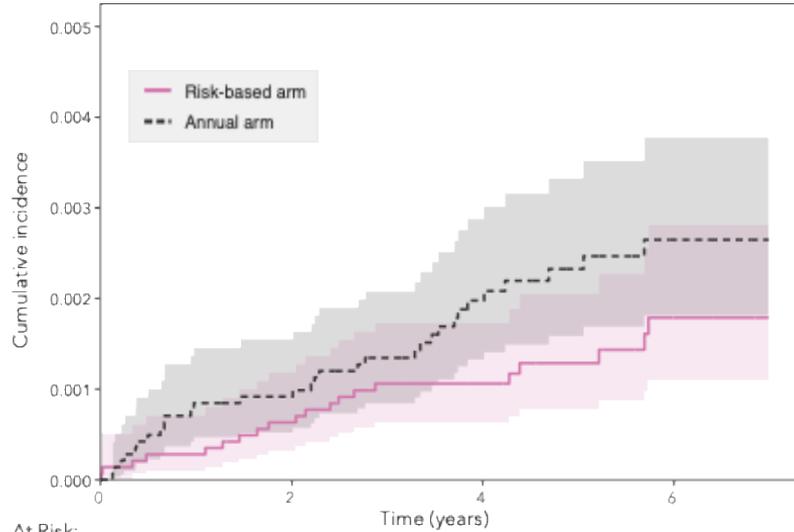
Risk based	14212	14104	9809	5078
Annual	14160	14061	9431	4963

DO NOT POST

Same number of cancers in each arm

➤ リスクベース群も通常群も同等の癌発生割合

No Increase in Stage $\geq 2B$ cancers in Risk-Based Screening



At Risk:

Risk-based	14212	14104	9809	5078
Annual	14160	14061	9431	4963

DO NOT POST

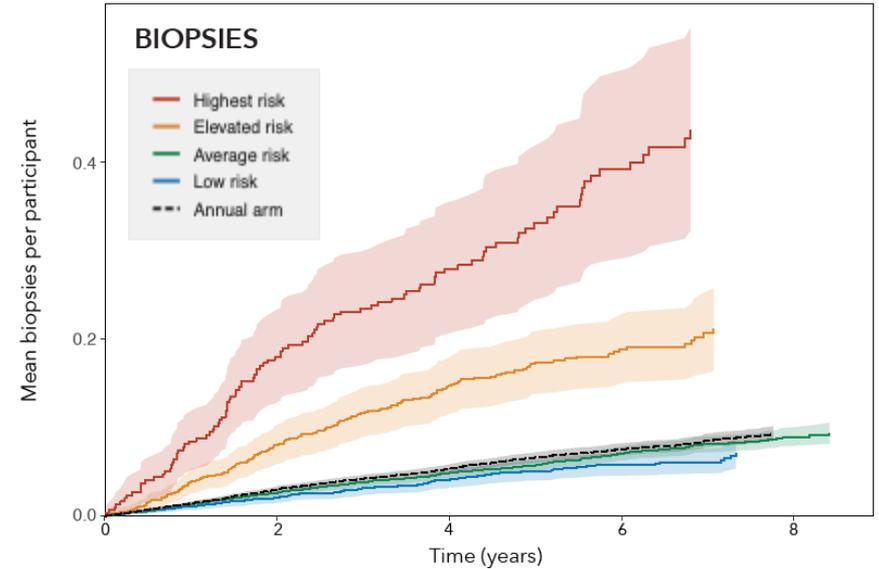
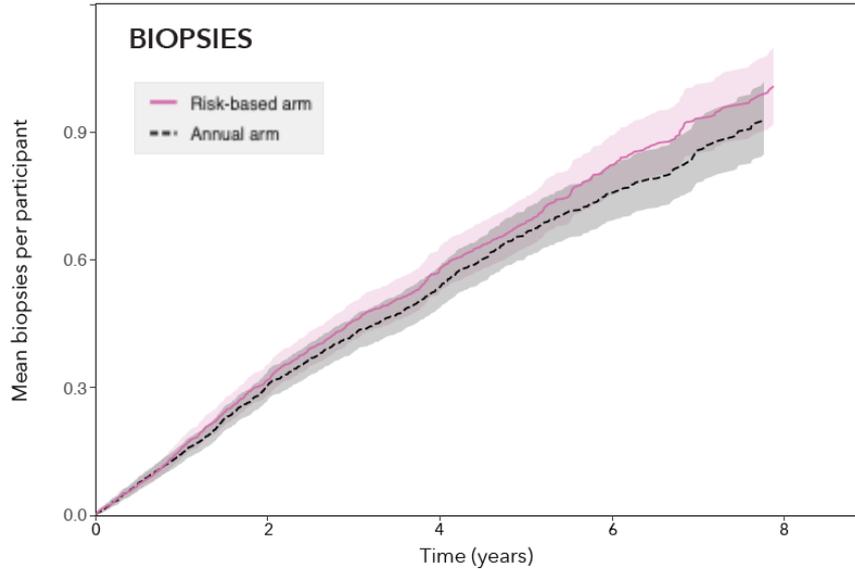
Fewer Stage $\geq 2B$ cancer in RISK BASED

Clearly met non-inferiority

➤ Stage IIB以上の発見率もリスクベース検診は劣らない



Biopsies Similar in Both Groups, varied by risk



Biopsy rates lowest in lower risk groups

- 生検の頻度はリスクベース群も通常群も同程度
- High riskでは生検頻度は増加

Summary of WISDOM1.0 trial

- ◆ WISDOM試験では遺伝子や家族歴などを用いたリスク評価に基づく検診が従来の年1回検診と同等に安全であることが示された
- ◆ Cost effectivenessも良好であった
- ◆ リスクスコアは欧米人のデータに基づいているので、**日本人への適応についてはさらなる研究が必要**

今後はリスクに応じた個別化検診の時代へ進む可能性

Clinical takeaways

◆ 術後内分泌療法の進化 (lidERA trial)

再発リスク30%低下、Oral SERDの新たな術後治療への開発に期待

◆ 低リスクDCIS治療の個別化 (LORETTA trial)

患者価値観を重視した、手術省略の可能性も含めた治療選択

◆ AYA世代サバイバーシップ支援 (YES trial)

ePROによるQOL改善、サバイバーシップケアの重要性と形態変化

◆ 妊孕性カウンセリング (PREFER trial)

妊孕性温存に対する早めの情報提供とカウンセリング提供

◆ 乳癌検診の個別化 (WISDOM1.0 trial)

リスクベース検診の安全性、個別化検診の新時代へ

**乳癌診療は
治療、サバイバーシップ、検診
一律の医療から、個別化医療へ**