

腫瘍学勉強会
2005年5月24日 (火曜日)

乳がん治療最近の話題 - ASCO2005 -

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ASCO

American Society of Clinical Oncology(米国臨床腫瘍学会)の第41回年次総会が2005年5月13日から17日にフロリダ州オーランドで開催されました。がん治療に関する最新の情報が集まる最大の学会です。今年も約3万5000人が参加、日本からもたくさんの方が参加しました。観光旅行の口実に学会に参加する、というような間違った姿勢で臨む人はひとりもいません。みんな真剣です。

がん薬物療法研究のトレンド

大目標 治療を必要とする患者に最適な治療を副作用なく提供する。

治療を必要とする患者をどのように選ぶか?
治療が要らない患者に治療をしない。
明らかに病気のある人、病気が悪化する可能性のある人を選別する。

最適な治療は何か?
効果の出る可能性のある治療を選ぶ。

がん薬物療法のトレンド

非特異的治療から特異的治療へ

細胞毒性抗がん剤(アドリアシン、タキソテールなど)
は正常細胞でもがん細胞でも細胞分裂の盛んな細胞を軒並み攻撃する。

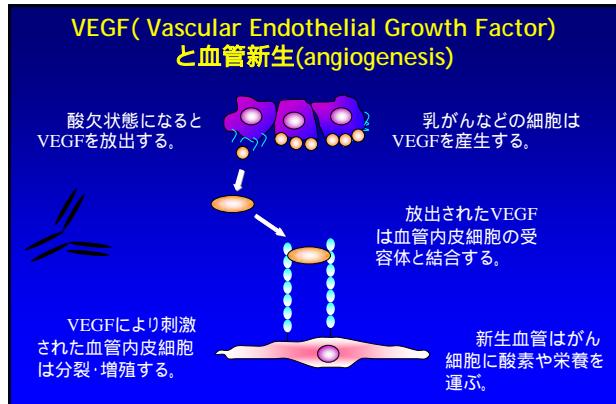
分子標的薬剤(ゲフィチニブ、トラスツズマブなど)
は特定の分子に対して作用するがその分子に依存しない細胞には何の影響もない。

非特異的治療

特異的治療

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乳がん治療の話題

- bevacizumab / 転移性乳がん
- trastuzumab / 原発性乳がん
- ... mab : monoclonal antibody



E2100

A Randomized Phase III Trial of Paclitaxel versus Paclitaxel plus Bevacizumab as First-Line Therapy for Locally Recurrent or Metastatic Breast Cancer

Kathy D Miller et al.
Indiana University Cancer Center

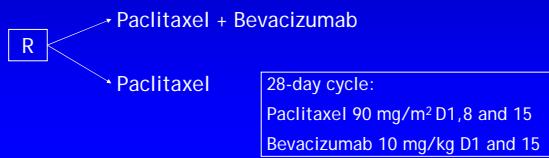
E2100 Rationale

- Tumor growth is dependent on angiogenesis
- Bevacizumab is a humanized monoclonal antibody directed against VEGF
 - recognizes all VEGF-A isoforms
 - Active in patients with refractory MBC
 - 9% response rate as monotherapy
 - Increases ORR but not PFS in combination with capecitabine
- Greater activity expected in less heavily pre-treated patients

E2100 Study Design

Stratify:

- DFS ≤ 24 mos. vs. > 24 mos.
- < 3 vs. ≥ 3 metastatic sites
- Adjuvant chemotherapy yes vs. no
- ER + vs. ER- vs. ER unknown



E2100 Key Eligibility Criteria

- Locally recurrent or metastatic breast cancer
 - HER2+ only if prior treatment with trastuzumab or contraindication
- No prior chemo regimens for MBC
 - Adjuvant taxane allowed if DFI > 12 months
- ECOG PS 0 or 1
- No anti-tumor therapy within 21 days
- No significant proteinuria (> 500 mg/24 hr)
- No therapeutic anticoagulation

E2100 Statistical Design - Efficacy

- Primary endpoint: Progression-Free Survival
 - 85% power for a 33% improvement
 - 6 vs. 8 months
- One-sided type I error ≈ 2.5%
- Required 650 eligible patients
- Final analysis after 546 PFS events
 - Interim analyses after 270 and 425 events
 - Asymmetric boundaries to stop early either for demonstrated benefit or for lack of benefit
 - O'Brien-Fleming boundaries and repeated confidence interval analyses at each interim

E2100 Statistical Design - Safety

- Type I event: Grade 4 hemorrhage or HTN
 - Acceptable rate: 1%
- Type II event: Grade 3/4 thrombosis or embolism
 - Acceptable rate: 5%

E2100 Current Analysis

- Study activated Dec 21, 2001
- Closed March 24, 2004
 - 715 eligible patients
- First planned interim analysis
- Data cut-off February 9, 2005
- 355 events
 - progression - 291
 - Death without documented progression - 64

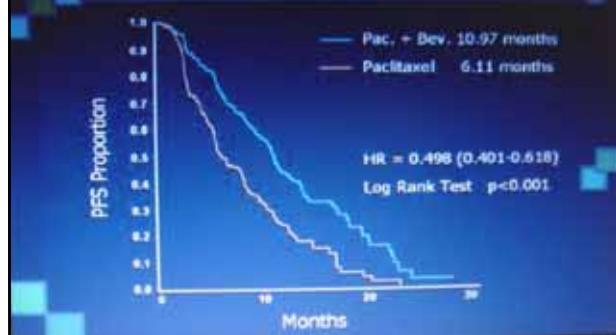
E2100 Patient Characteristics

	Paclitaxel (n=350)	Pac.+Bev. (n=365)
Treated	346	365
Median age	55 (27-85)	56 (29-84)
DFI ≤ 24 months	41%	41%
≥ 3 sites	29%	28%
Adjuvant chemo.	64%	65%
ER +	63%	64%

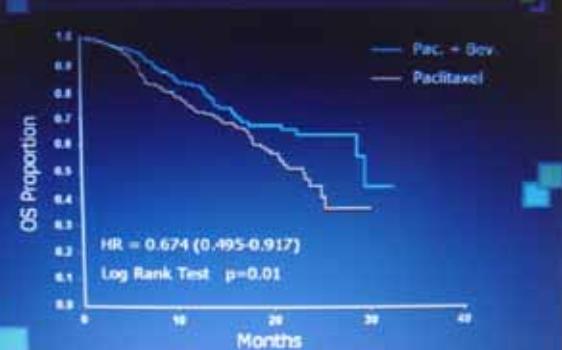
E2100 Response

	Paclitaxel	Pac.+Bev.
All patients (n)	316	330
Response rate	14.2	28.2
χ^2		p<0.0001
Mesurable dis. (n)	250	236
Response rate	16.4	34.3
χ^2		p<0.0001

Progression Free Survival



Overall Survival



E2100 Toxicity (1) NCI-CTC Grade 3 and 4

	Paclitaxel (n=330)		Pac.+Bev. (n=342)	
	Grade 3	Grade 4	Grade 3	Grade 4
HTN*	0	0	13	0.3
Thromboembolic	0.3	0.9	1.2	0
Bleeding	0	0	0.6	0.3
Proteinuria**	0	0	0.9	1.5

NCI-CTC v3.0, worst per patient *p<0.0001; **p=0.004

E2100 Toxicity (2) NCI-CTC Grade 3 and 4

	Paclitaxel (n=330)		Pac.+Bev. (n=342)	
	Grade 3	Grade 4	Grade 3	Grade 4
Neuropathy*	13.6	0.6	19.9	0.6
Fatigue	2.7	0	4.7	0.3
Neutropenia	0	3	0.9	4.4
decreased LVEF	0	0	0.3	0

NCI-CTC v3.0, worst per patient

*p=0.01

E2100 Ongoing Correlative Studies

- Quality of Life (FACT-B)
- Circulating markers
 - Serum VCAM-1
 - Urine VEGF
- Analysis of primary tumor samples
 - VEGF expression

E2100 Conclusions and Future Directions

- Addition of bevacizumab to paclitaxel
 - Significantly prolongs progression free survival
 - Increases objective response rate
 - Longer follow-up required to assess impact on OS
- Future studies should
 - Explore the role of bevacizumab in the adjuvant setting
 - Develop methods to identify patients who are most likely to benefit from VEGF-targeted therapies

E2104 Adjuvant Pilot Trial

- Arm A: ddBAC > BT > B

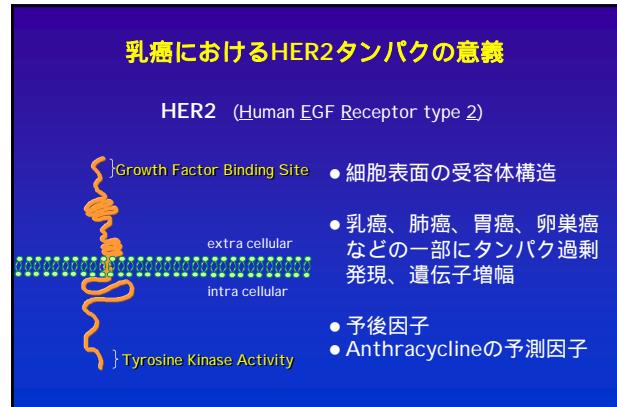
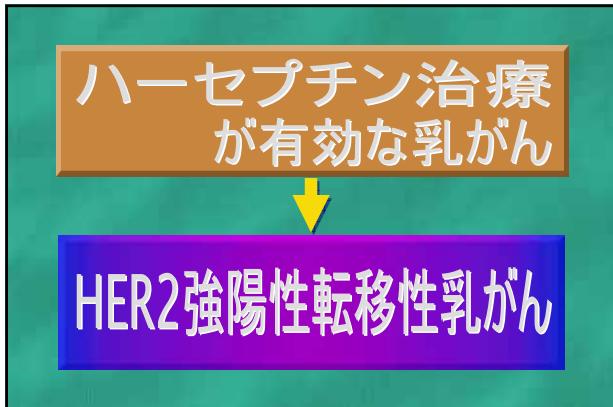
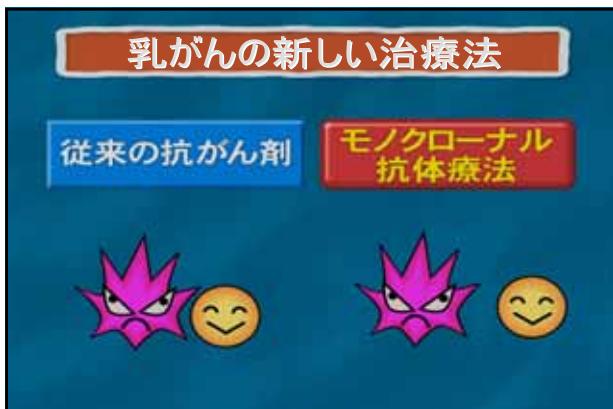
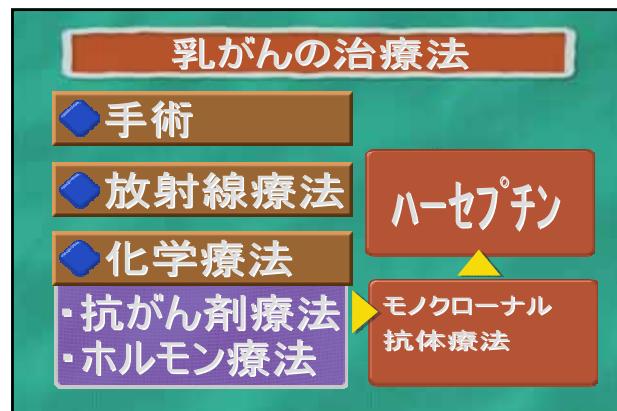
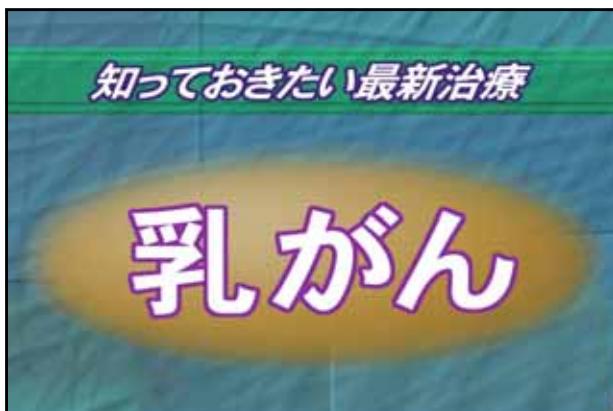


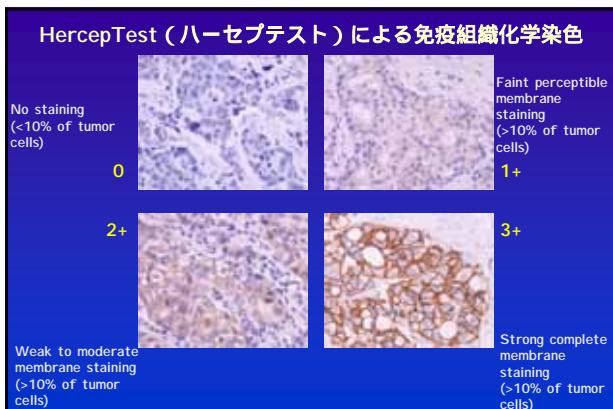
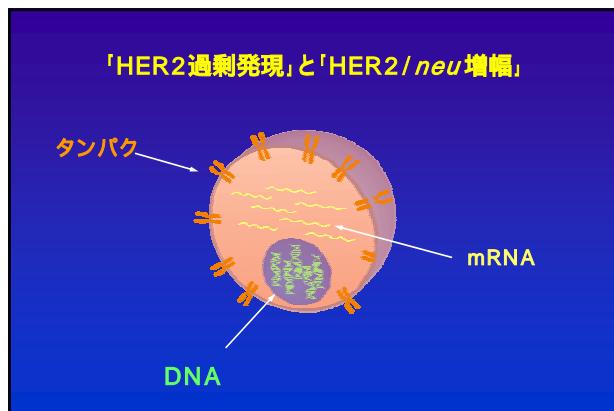
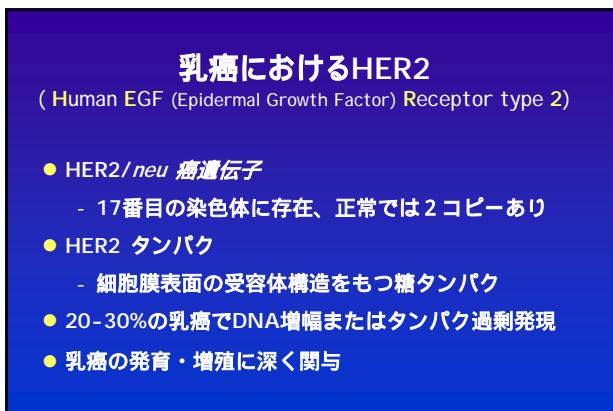
- Arm B: ddAC > BT > B

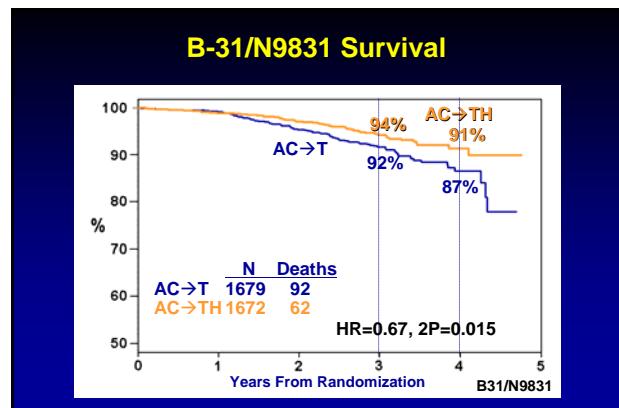
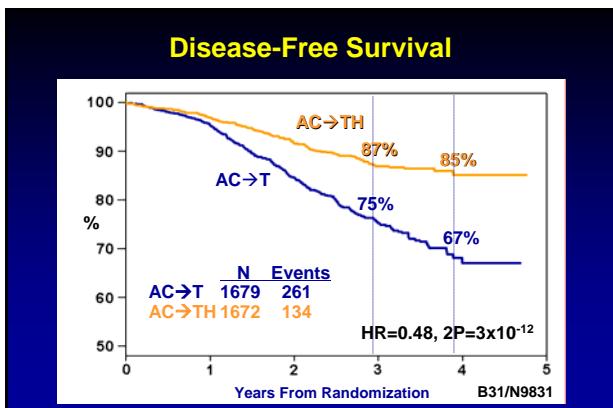
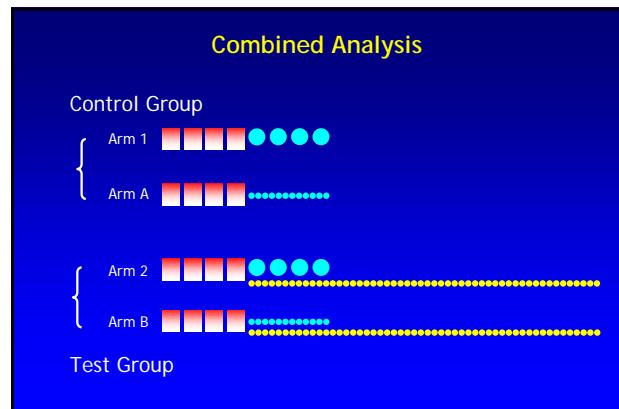
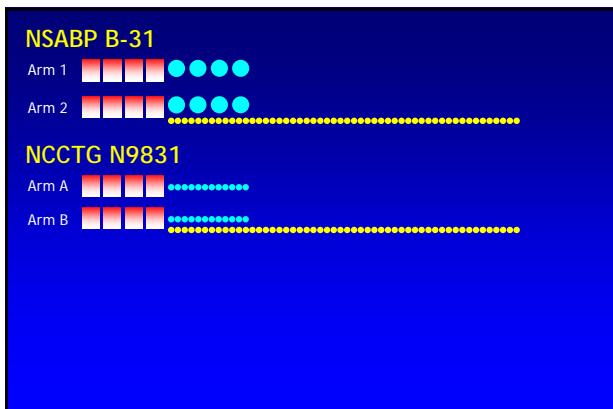
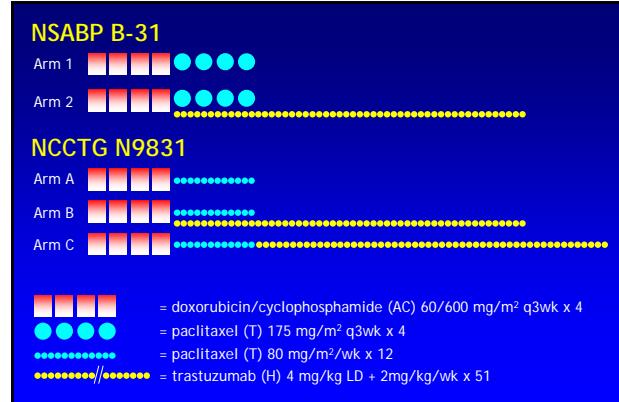
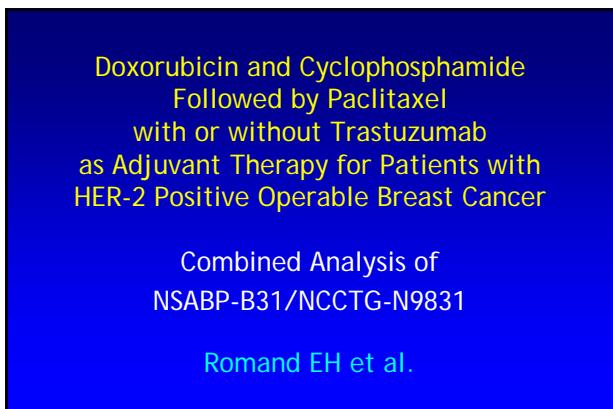
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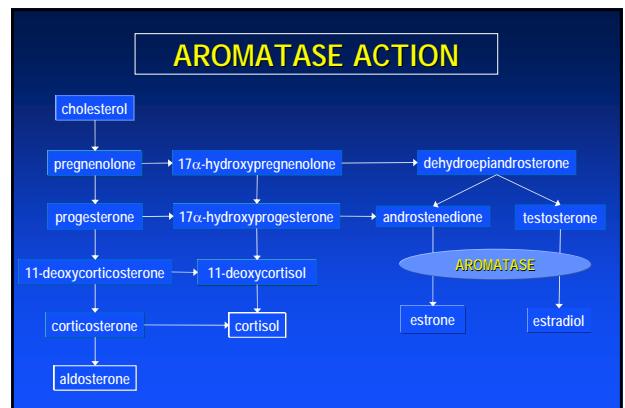
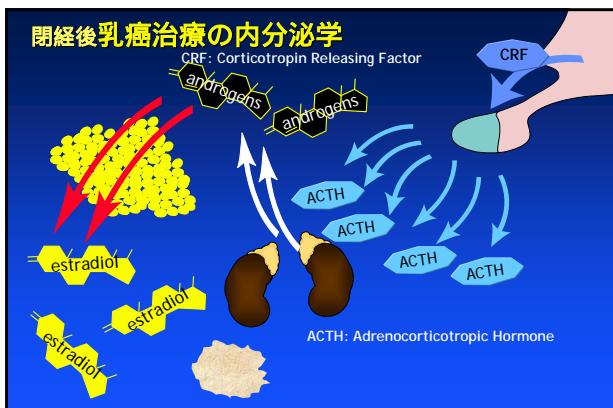
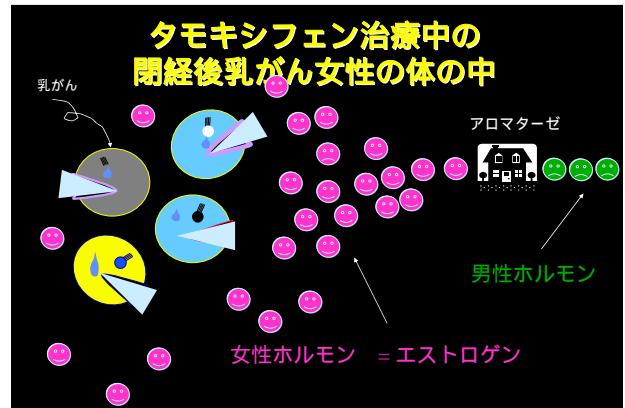
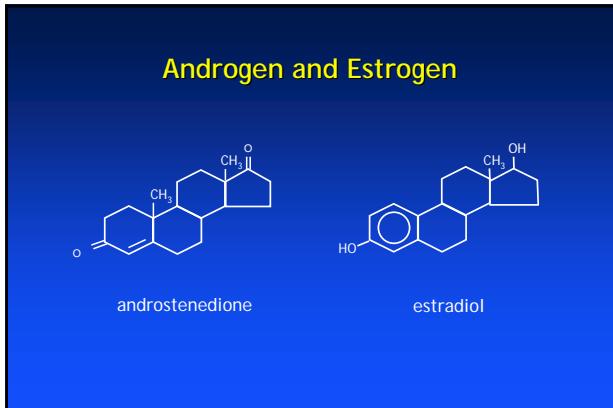
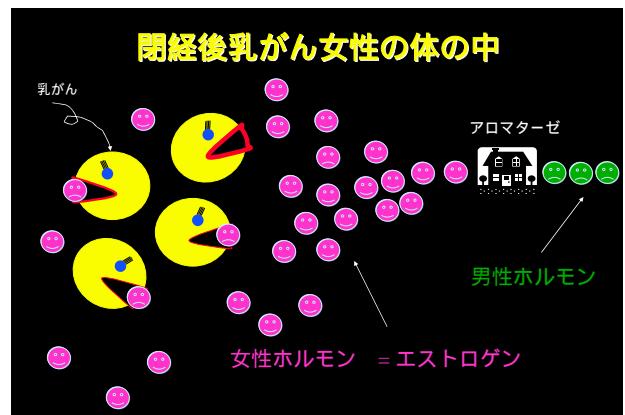
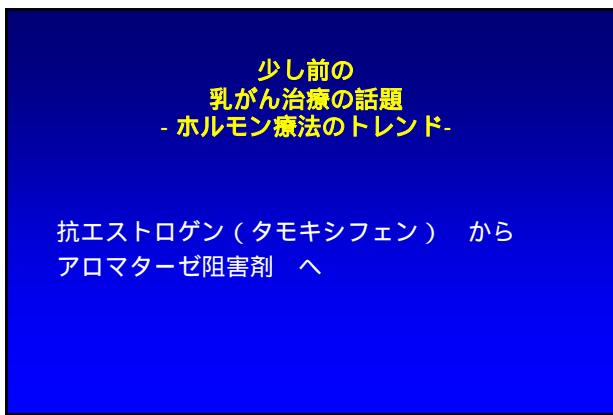
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- trastuzumab / 原発性乳がん
- mab : monoclonal antibody

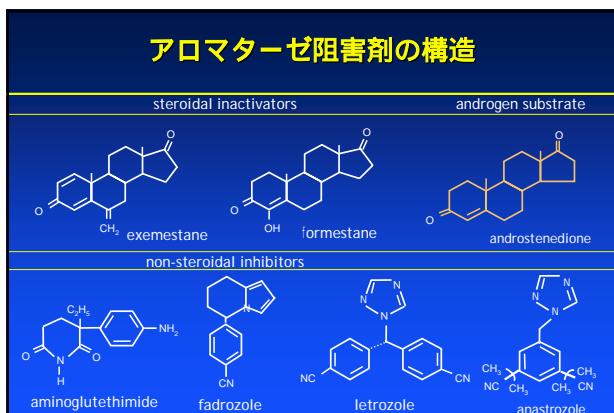
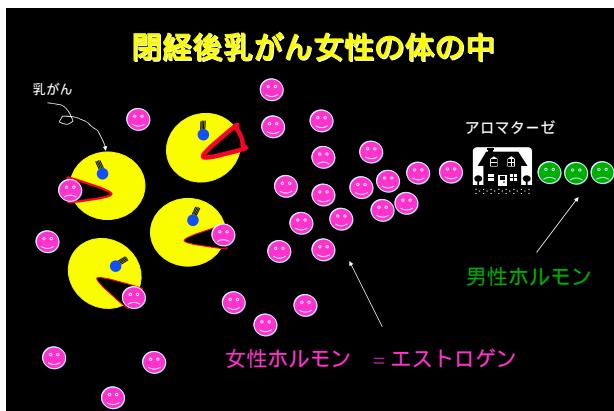










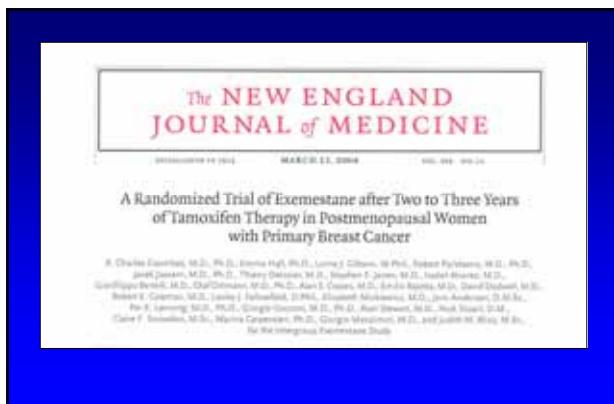


タモキシフェン2-3年内服した閉経後乳がん患者

そのまま、タモキシフェンを内服するのがよいか、それともアロマシン内服に切り換えるのがよいか？

Intergroup Exemestane Study (IES)

国際協同試験



BACKGROUND:
Tamoxifen, taken for five years, is the standard adjuvant treatment for postmenopausal women with primary, estrogen-receptor–positive breast cancer. Despite this treatment, however, some patients have a relapse.

METHODS:
We conducted a double-blind, randomized trial to test whether, after two to three years of tamoxifen therapy, switching to exemestane was more effective than continuing tamoxifen therapy for the remainder of the five years of treatment. The primary end point was disease-free survival.

RESULTS:
Of the 4742 patients enrolled, 2362 were randomly assigned to switch to exemestane, and 2380 to continue to receive tamoxifen. After a median follow-up of 36.6 months, 449 first events (local or metastatic recurrence, contralateral breast cancer, or death) were reported—183 in the exemestane group and 266 in the tamoxifen group. The unadjusted hazard ratio in the exemestane group as compared with the tamoxifen group was 0.68 (95 percent confidence interval, 0.56 to 0.82; $P=0.007$) by the log-rank test, representing a 32 percent reduction in risk and corresponding to an absolute benefit in terms of disease-free survival of 4.7 percent (95 percent confidence interval, 2.6 to 6.8) at three years after randomization. Overall survival was not significantly different in the two groups, with 93 deaths occurring in the exemestane group and 106 in the tamoxifen group. Severe toxic effects of exemestane were rare. Contralateral breast cancer occurred in 20 patients in the tamoxifen group and 9 in the exemestane group ($P=0.04$).

CONCLUSIONS:
Exemestane therapy after two to three years of tamoxifen therapy significantly improved disease-free survival as compared with the standard five years of tamoxifen treatment.

