

# IGCS



INTERNATIONAL  
GYNECOLOGIC  
CANCER SOCIETY

GYNECOLOGIC  
CANCER INTERGROUP

An Organization of International Cooperative  
Groups for Clinical Trials in Gynecologic Cancers

# Gynecologic cancer update : Uterine cancer

## 子宮体癌

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# COI disclosure

## 利益相反

- Nothing to disclose

開示すべき利益相反なし

# Outline 今日のお話

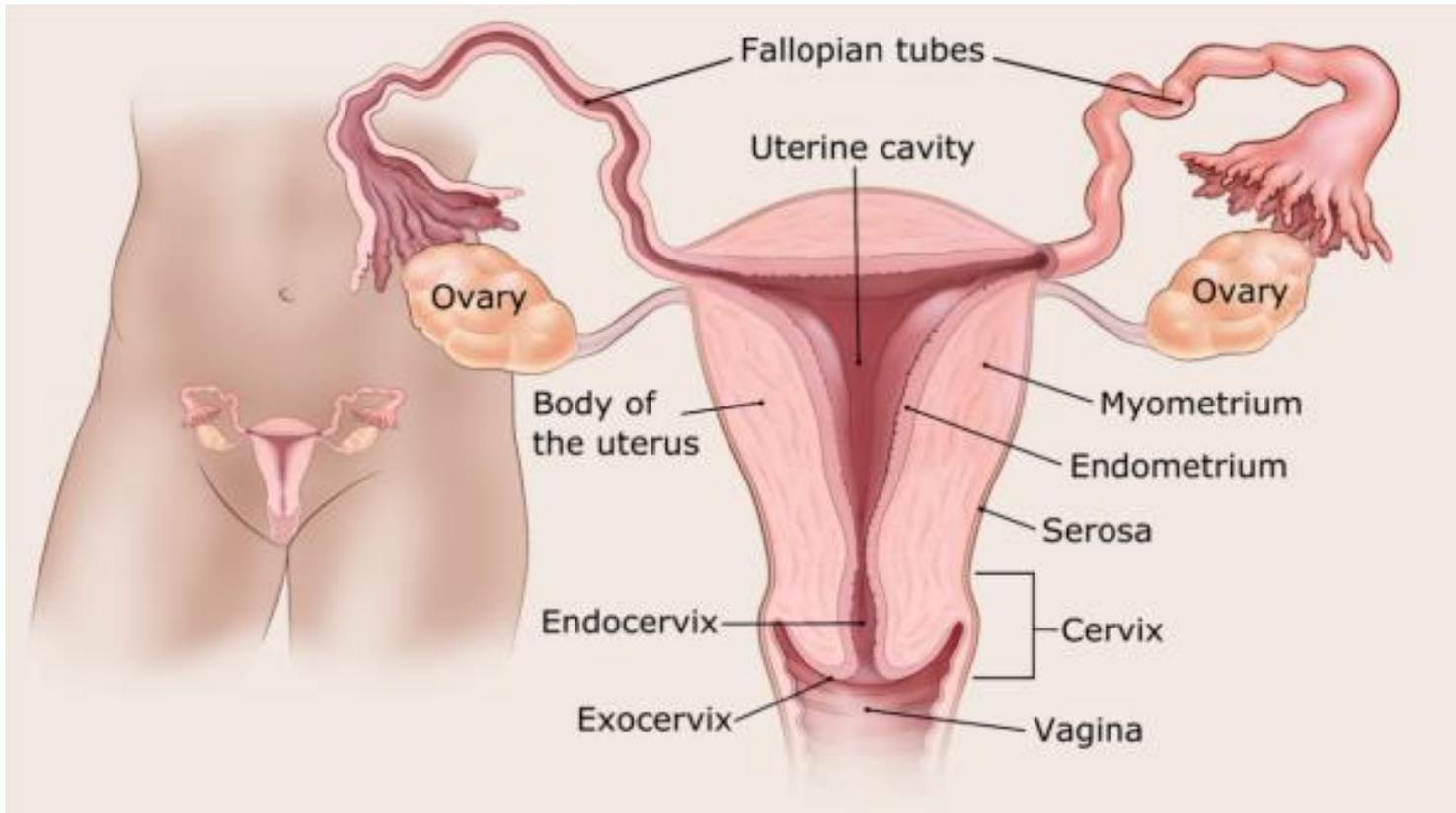
## 1. General aspect 一般的事項

- Symptoms, diagnosis, screening, prevention 症状・診断
- Incidence, genetics 頻度、遺伝 検診・予防

## 2. Treatment 治療

- Surgery 手術
- Lymph node dissection issue リンパ節郭清の問題
- Preservation of ovary, uterus 卵巣、子宮の温存
- Adjuvant treatment & follow-up 術後補助療法・
- Recent advances フォローアップ

最近の進歩



## Carcinoma **がん**

- Originates from epithelial tissue, the most common type **最も多いのは上皮から発生するタイプ**
- Endometrioid adenocarcinoma (>80%), Non-endometrioid carcinoma (~10%)  
**類内膜腺癌 (>80%)、非類内膜腺癌 (10%以下)**

## Sarcoma **肉腫**

- Originates in muscle or connective tissue **筋肉、結合組織から発生**

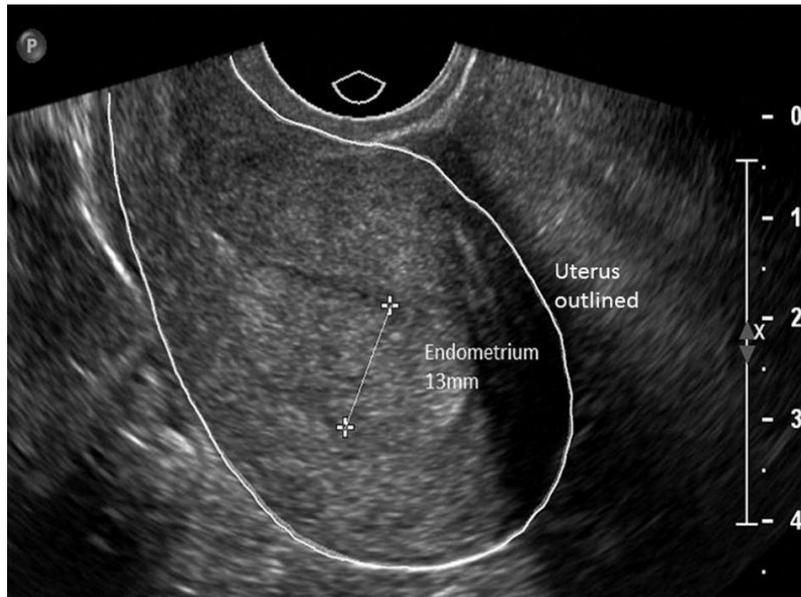
# Clinical symptoms

## 自覚症状

- Abnormal vaginal bleeding: the most common warning sign, ~90% 不正出血:最も多い症状、約90%
  - Any bleeding after menopause 閉経後の出血
  - irregular or heavy vaginal bleeding in younger women (before menopause) 月経不順、過多月経
- an opportunity for early diagnosis & treatment 早期発見・早期治療開始のきっかけ
- Pelvic pressure or discomfort 骨盤圧迫感、不快感
  - Indicative of uterine enlargement or extrauterine disease spread 子宮の増大や病巣の子宮外への進展を示唆
- Asymptomatic: less than 5% 症状がないのは5%未満

# Tests for endometrial cancer

## 子宮体癌の検査



Trans-vaginal ultrasound

経膣超音波



Dilation and curettage (D&C)

内膜搔爬

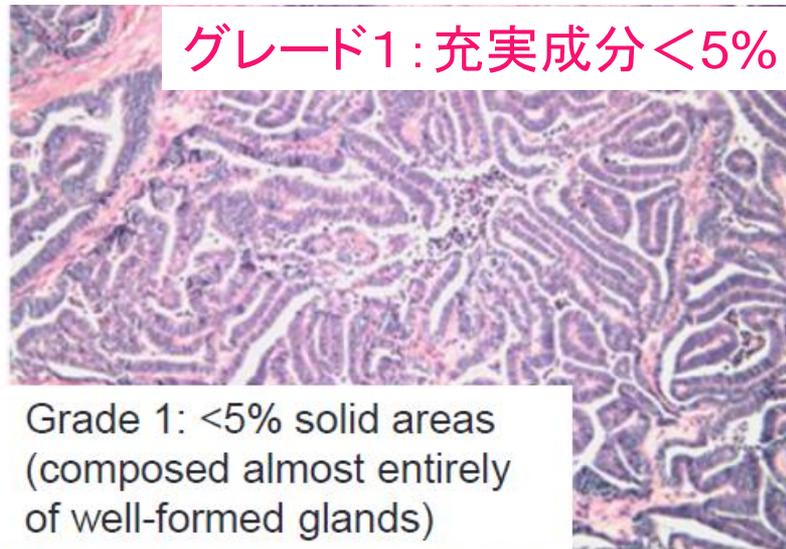
# Endometrioid adenocarcinoma

## 類内膜腺癌

Histologic grading of endometrioid carcinomas  
- 3-step grading system

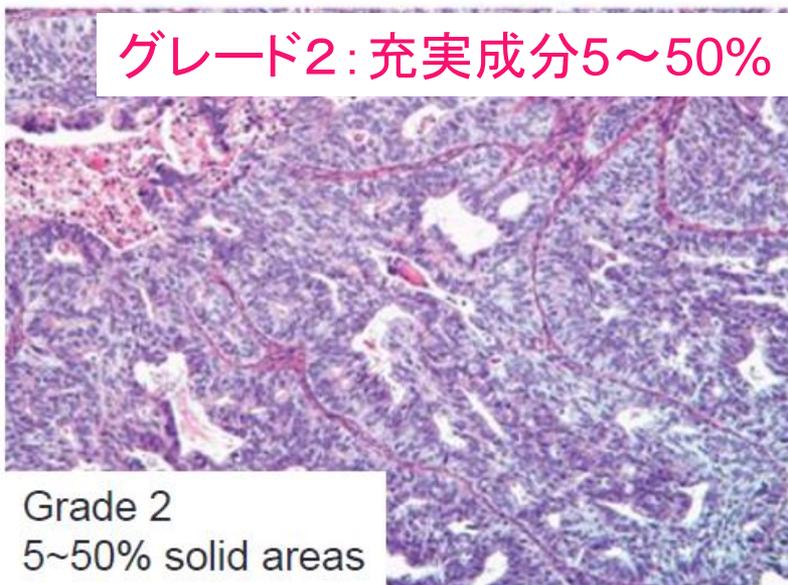
類内膜癌の組織学的分類  
一分化度により3段階に分類

グレード1: 充実成分 < 5%



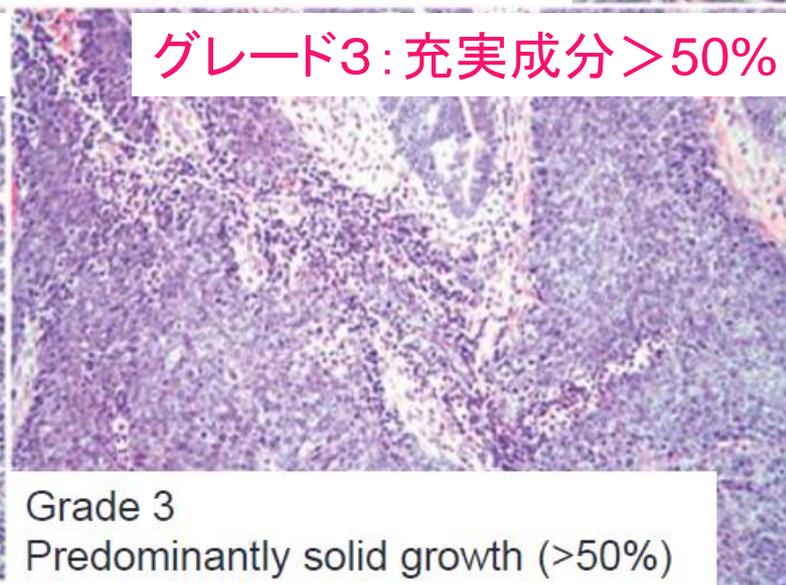
Grade 1: <5% solid areas  
(composed almost entirely  
of well-formed glands)

グレード2: 充実成分 5~50%



Grade 2  
5~50% solid areas

グレード3: 充実成分 > 50%



Grade 3  
Predominantly solid growth (>50%)

# Tests to look for cancer spread

## 癌の広がりを調べる検査

- To define disease extent and discover the other combined conditions 癌の広がりと他の併存症を調べる

- Pelvis CT or MR imaging:

- Depth of myometrial invasion
- Lymph node evaluation

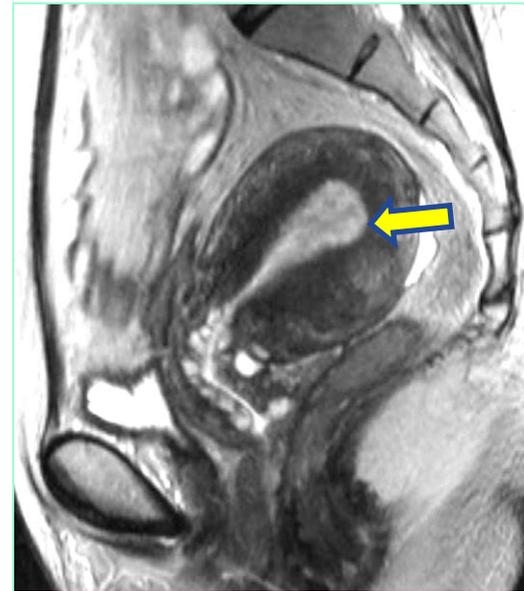
### 骨盤部CTやMRI

- 子宮筋層への浸潤の深さ
- リンパ節の評価

- Chest CT, PET/CT

- CA-125\* 胸部CT・PET

- Mammography\* マンモグラフィー



# Risk factors リスク因子

- Prolonged exposure to the estrogen without adequate opposition from the progesterone hormone
  - external sources: prescribed estrogen or tamoxifen
  - internal sources: obesity

相対的なエストロゲンへの長期暴露  
- エストロゲン製剤、タモキシフェン  
- 肥満
- Irregular menstrual cycles, and infertility due to ovulatory dysfunction or polycystic ovarian syndrome  
月経不順、卵巣機能不全による不妊、多嚢胞性卵胞症候群
- Early onset of menses, late menopause, never giving birth, as well as DM and hypertension  
早い初潮、遅い閉経、出産経験がない、糖尿病、高血圧
- Strong family history of endometrial or colon cancer (Lynch syndrome)  
子宮体癌・大腸癌の濃厚な家族歴 (リンチ症候群)

# Screening

## 検診

- In the absence of signs of abnormal bleeding, there are no routine screening tests for uterine cancer.

不正出血がなければ、子宮体癌に有効な検診はない。

# Prevention 予防

- Regular exercise, eating a balanced plant-based diet and maintaining a healthy weight

適度な運動、バランスの良い食事で健康的な体重を維持

- Chemoprevention with oral pill or IUD

ピルや子宮内避妊具による予防

- 2~5% of endometrial cancer are familial

子宮体癌の2-5%は家族性に発症する

- Lynch syndrome: family members with colon, endometrial, ovarian, and other cancers リンチ症候群: 大腸癌、子宮体癌、卵巣癌などの家族歴
- Genetic counseling and even testing 遺伝相談、遺伝子検査
- Screening: endometrial biopsy and pelvic ultrasound 内膜細胞診、超音波
- Chemoprevention: oral pill 薬による予防: 経口ピル
- Prophylactic surgery: hysterectomy and oophorectomy 手術による予防: 子宮全摘、卵巣切除

# Lynch syndrome

## リンチ症候群

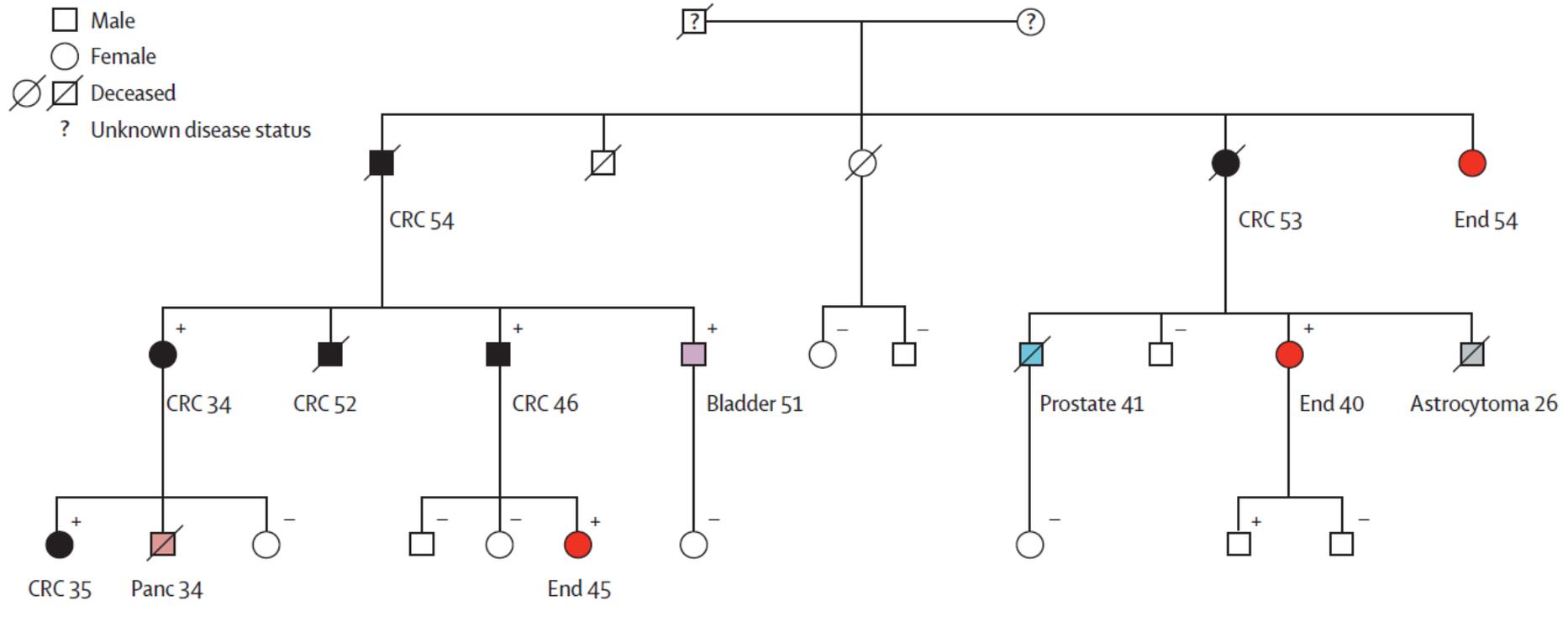
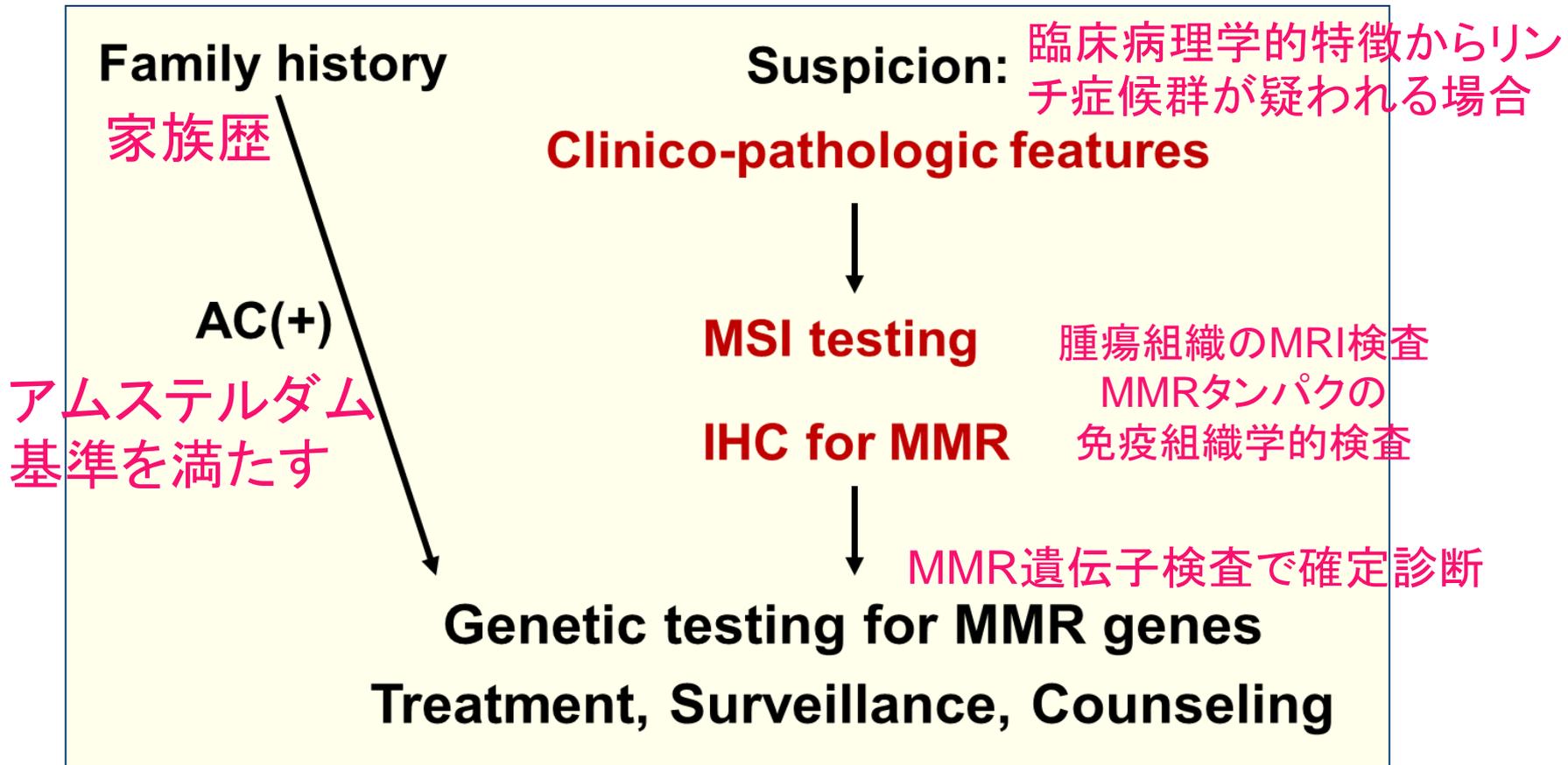


Figure 2: Pedigree of a family with Lynch syndrome (*MSH2* mutation)

+ = proven mutation carrier. - = non-mutation carrier. CRC = colorectal cancer. Bladder = bladder cancer. End = endometrial cancer. Panc = pancreatic cancer. Prostate = prostate cancer. Numbers after tumour type refer to age at diagnosis. Not all relatives chose to have genetic testing.

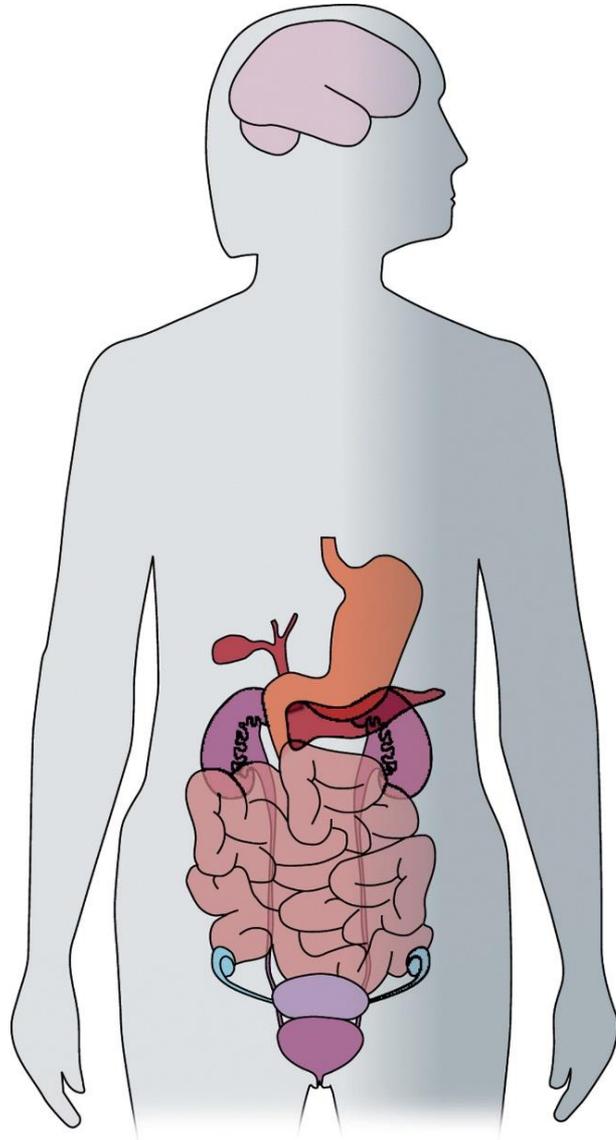
# Clinical diagnosis of Lynch syndrome (HNPCC): Limitations

## リンチ症候群(HNPCC)の臨床診断

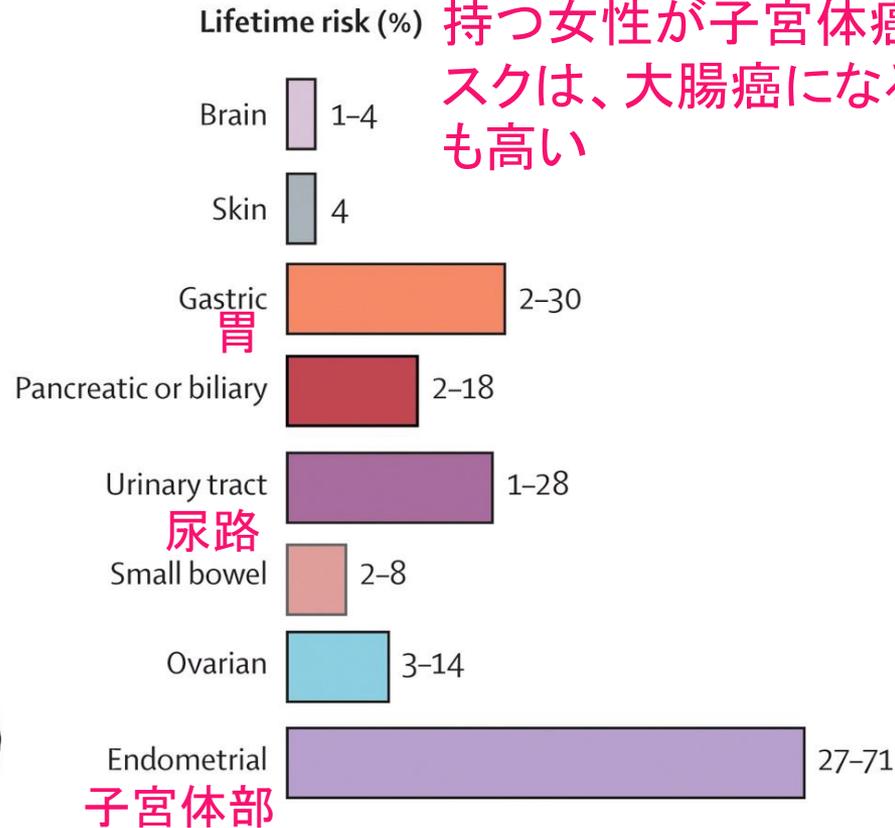


AC, Amsterdam criteria; MSI, microsatellite instability; IHC, Immunohistochemistry; MMR, mismatch repair

For women with a genetic predisposition for Lynch syndrome, lifetime risk of endometrial cancer is higher than that of colorectal cancer.

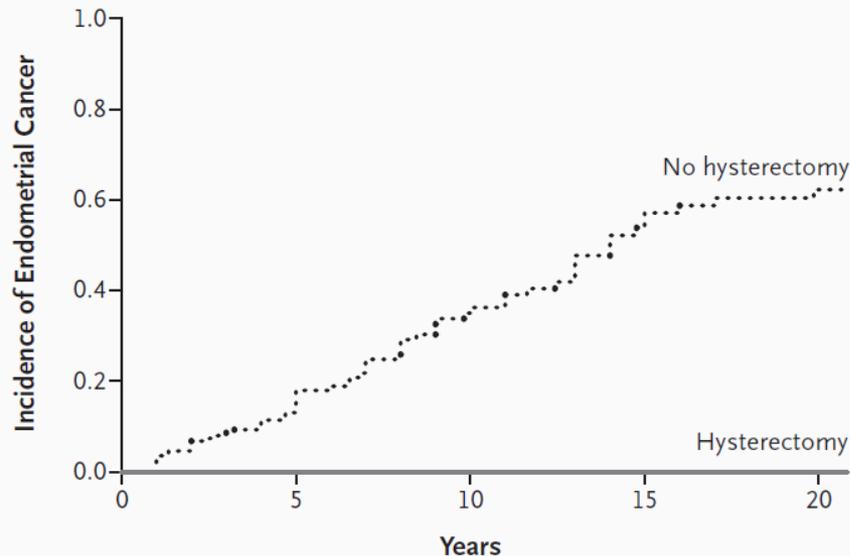


リンチ症候群の遺伝子変異を持つ女性が子宮体癌になるリスクは、大腸癌になるリスクよりも高い



# Prophylactic surgery and screening

## 予防的手術とスクリーニング



### No. at Risk

No hysterectomy	210	106	52	28	20
Hysterectomy	61	39	28	25	18

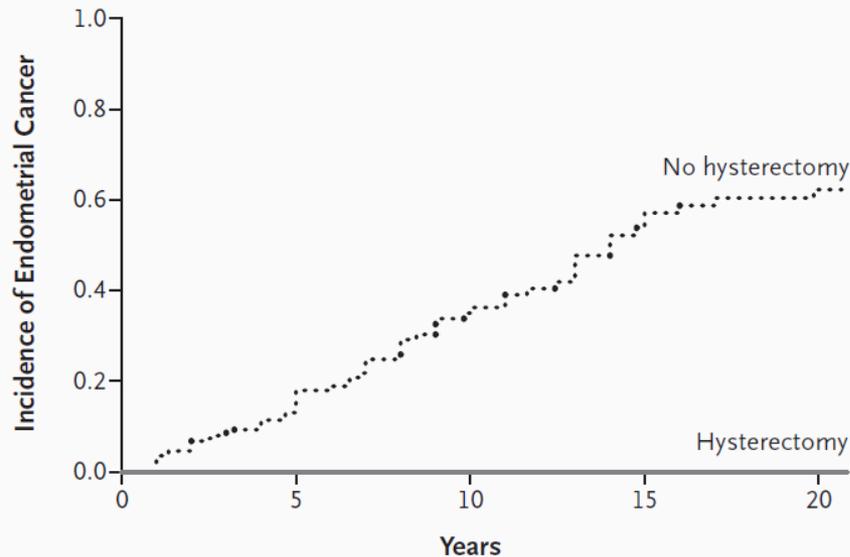
**Figure 1.** Cumulative Incidence of Endometrial Cancer among Women with the Lynch Syndrome Who Underwent Prophylactic Hysterectomy and Those Who Did Not.

1. Hysterectomy and bilateral salpingo-oophorectomy should be offered to women who are known Lynch syndrome (LS) mutation carriers and who have finished child bearing, optimally at age 40~45 years.

40-45歳の出産を終えたリンチ症候群の遺伝子変異を持つ女性に、子宮全摘・両側付属器摘出を提供してすべきである。

# Prophylactic surgery and screening

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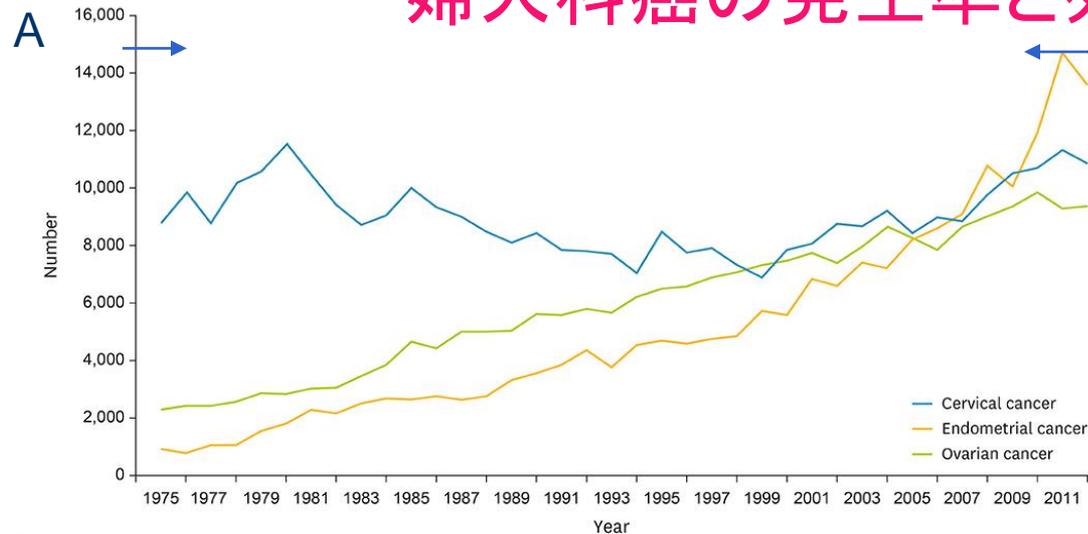
**Figure 1.** Cumulative Incidence of Endometrial Cancer among Women with the Lynch Syndrome Who Underwent Prophylactic Hysterectomy and Those Who Did Not.

- Screening for endometrial cancer (EC) and ovarian cancer should be offered to women at risk for or affected with LS by **endometrial biopsy** and **transvaginal ultrasound annually**, starting at **age 30 to 35 years** before undergoing surgery or if surgery is deferred.

30-35歳のリンチ症候群によるリスクのある女性に、子宮内膜細胞診と経膈超音波により体癌・卵巣癌のスクリーニングを行うべきである。

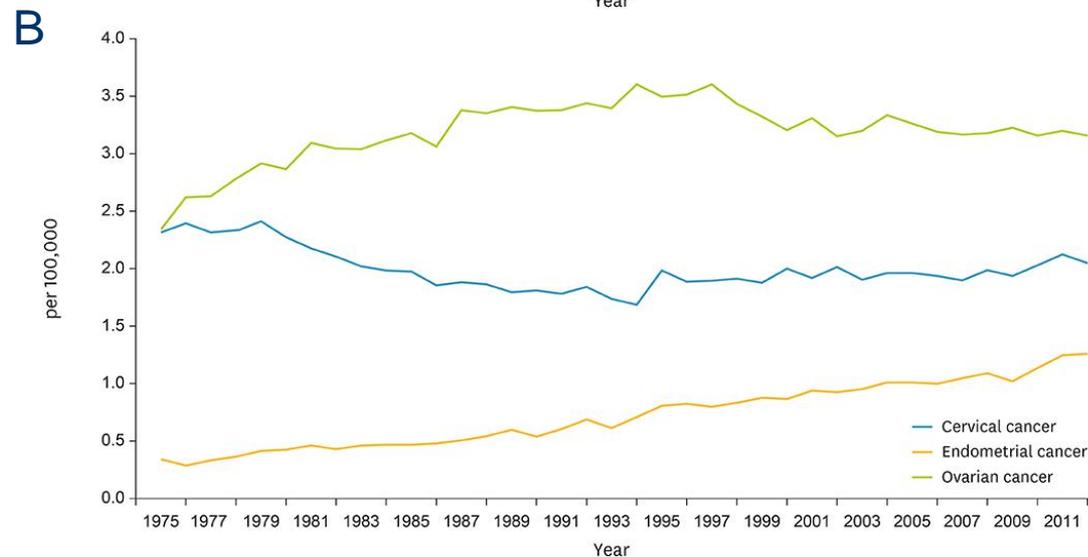
# Incidence and mortality of gynecologic malignancies in Japan

## 婦人科癌の発生率と死亡率



A. Incidence

発生率

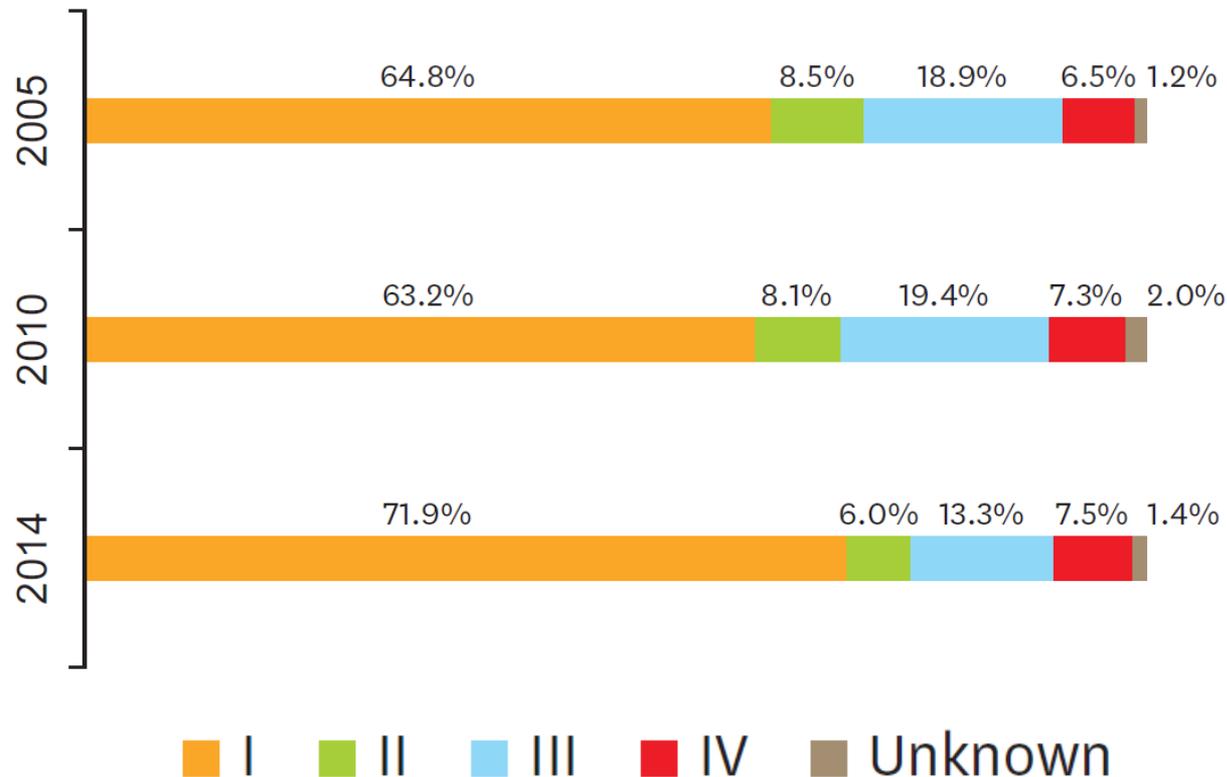


B. Age-adjusted mortality

年齢調整死亡率

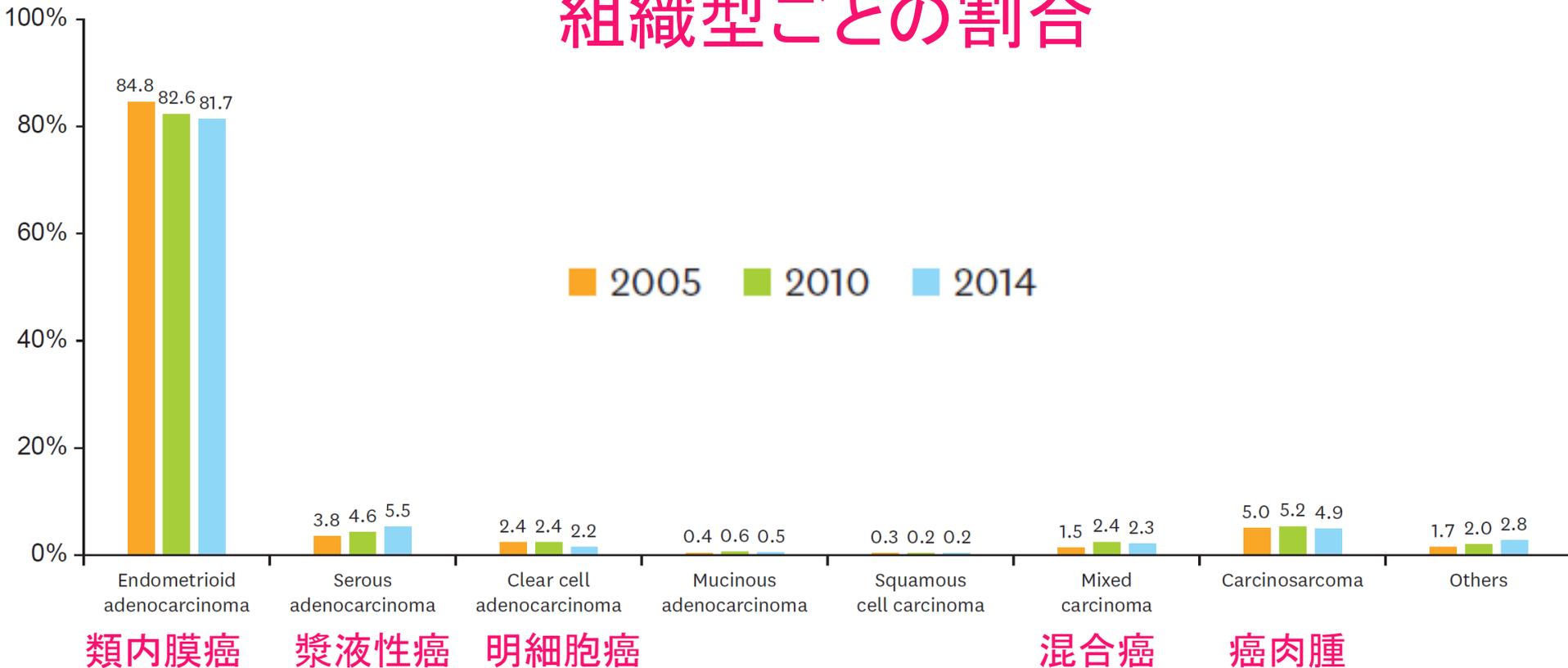
# Distribution of FIGO stage in endometrial cancer in Japan

## 進行期ごとの割合



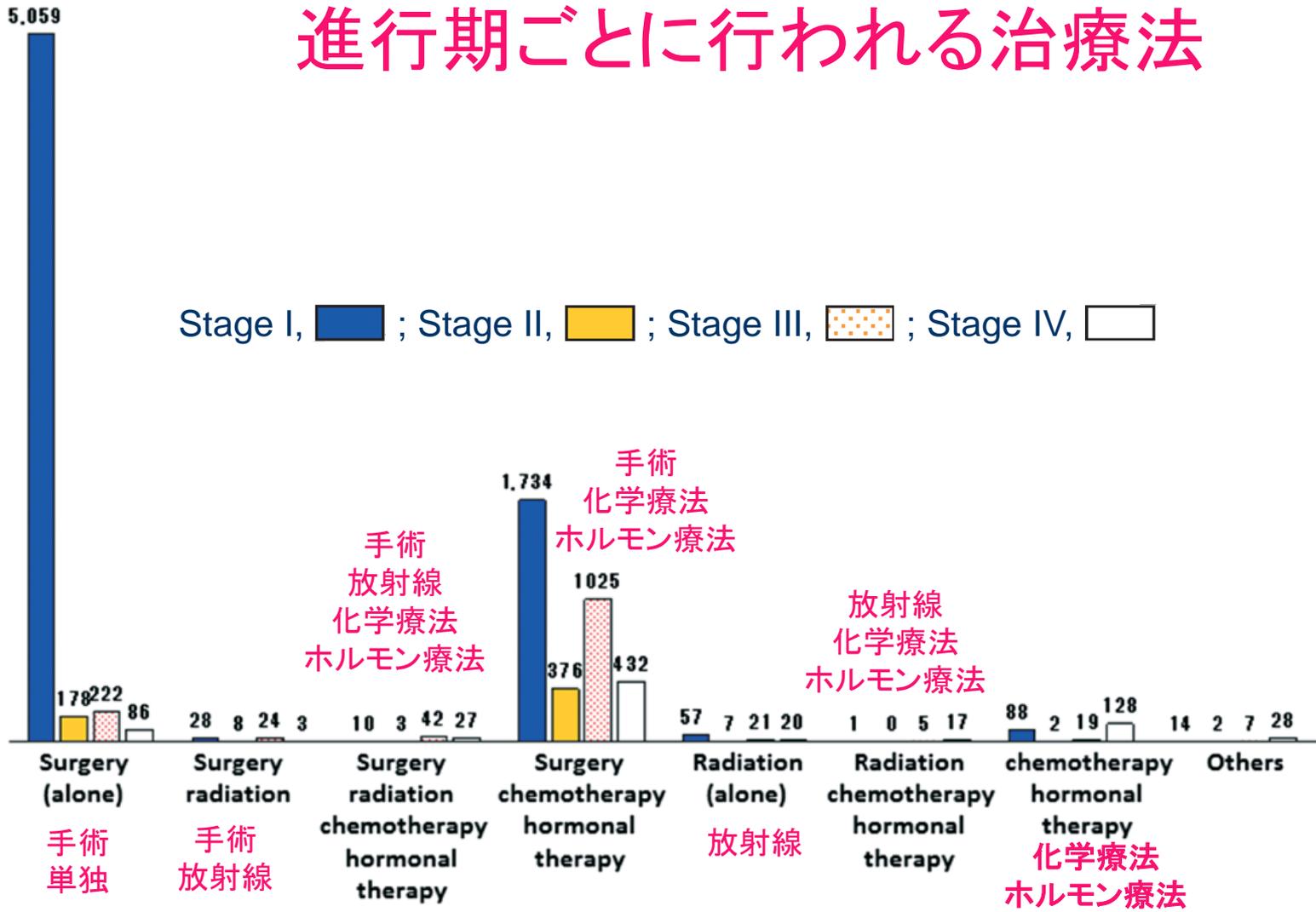
# Distribution of histological types in endometrial cancer in Japan

## 組織型ごとの割合



# Distribution of treatment methods by surgical stages for patients with endometrial cancer in 2014 in Japan

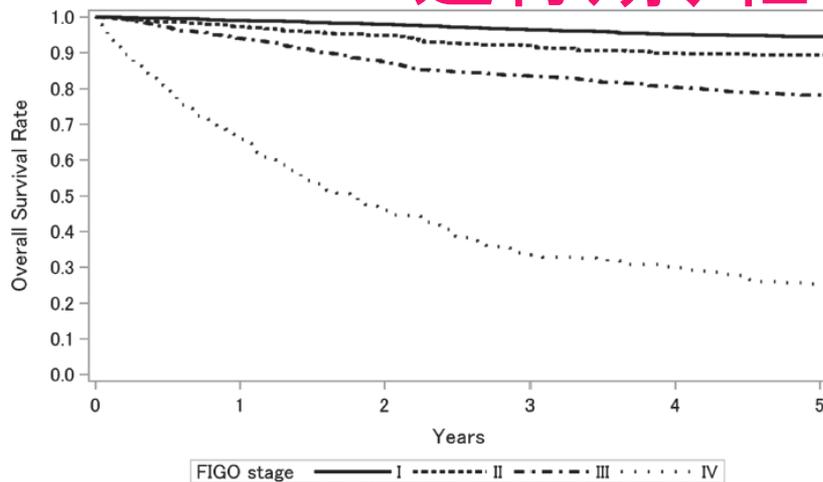
## 進行期ごとに行われる治療法



# Survival according to surgical stage & histologic types

: report on patients treated in 2009 in Japan

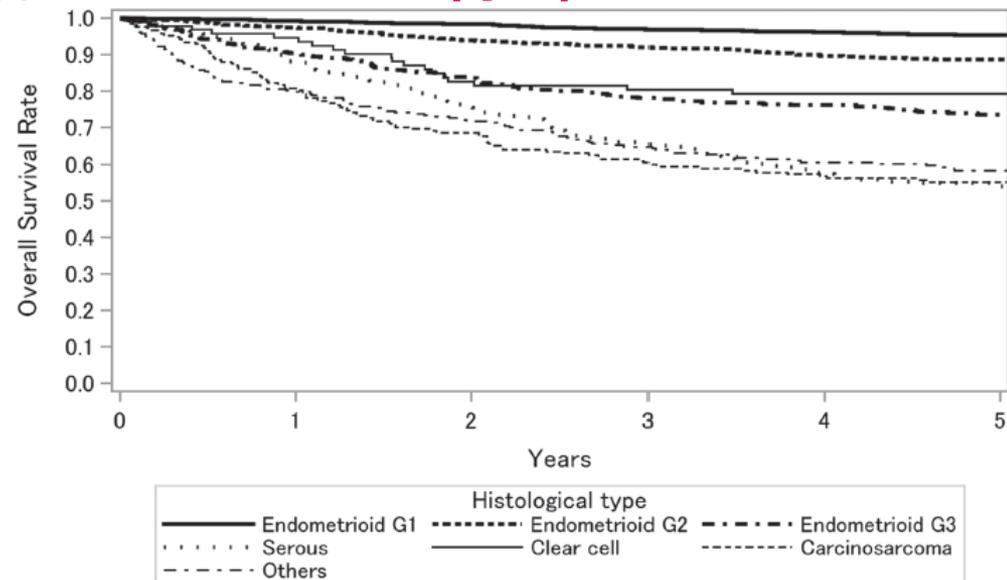
進行期、組織型ごとの生存率



5-year Overall Survival (OS) rates

stage IA, 97.1%;  
 stage IB, 95.5%;  
 stage IC, 88.9%;  
 stage II, 89.4%

5年生存率 94.6%



5-year OS rates 5年生存率

Endometrioid G1, 95.4%; G2, 88.7%; G3 73.6%

# Status of endometrial cancer in Korea

## 韓国での現況

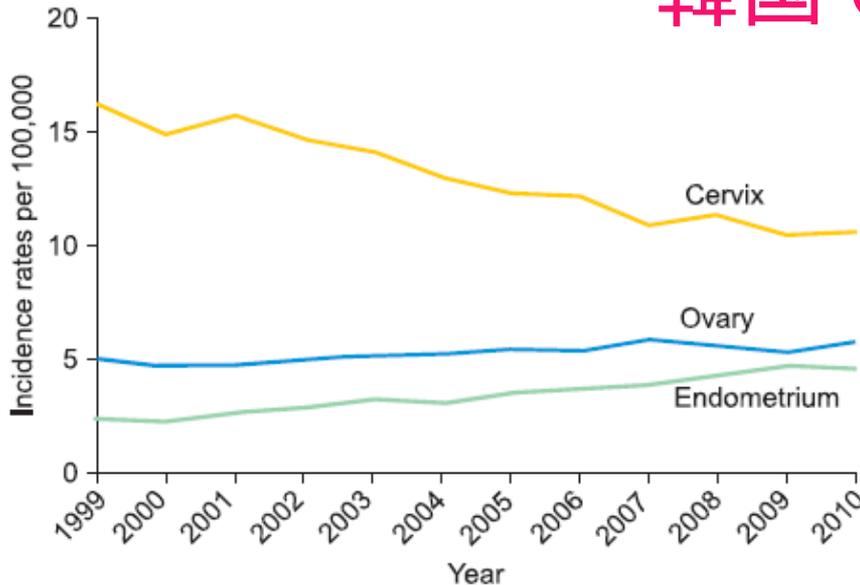


Fig. 1. Age-standardized incidence curves of cervical, endometrial, and ovarian cancer, the Korea Central Cancer Registry, 1999–2010.

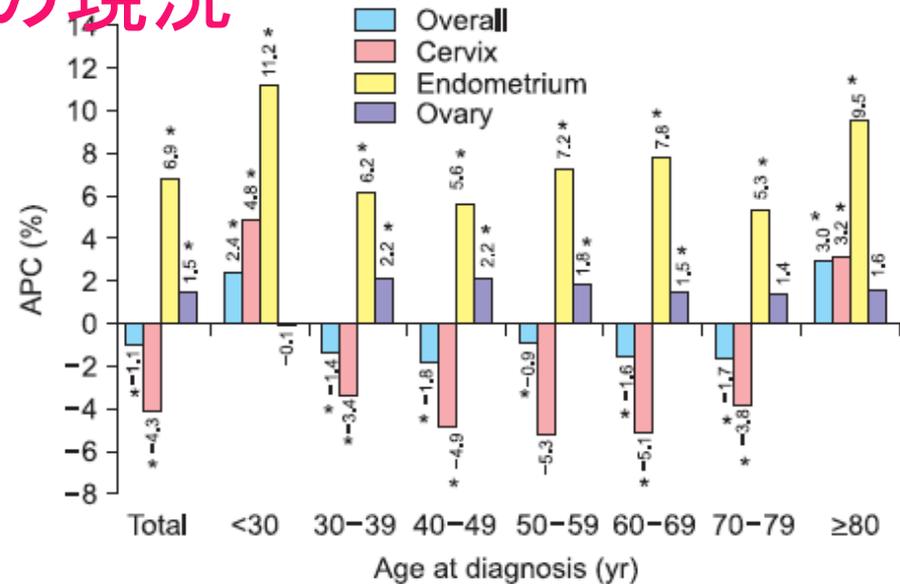


Fig. 2. Annual percent changes (APCs) in the incidences of cervical, endometrial, and ovarian cancer according to age group, 1999–2010. Data extraction was based on the definition of the International Classification of Diseases, 10th edition (ICD-10): cervix (C53), endometrium (C54.1), and ovary (C56). \*P<0.05.

- In 2017, uterine cancer is estimated to comprise 2.5% (2,578) of all new female cancers.
- Uterine cancer has been definitively increasing (APC, 6.9% during 1999~2010), especially in females <30 years old (APC, 11.2%) and in females ≥80 years old (APC, 9.5%).
- 2017年、子宮癌は新規の女性の癌の約2.5% (2578人)を占めると推測されている
- 特に30才未満の女性と80才以上の高齢女性において子宮癌は増加している

Lim MC, et al. J Gynecol Oncol. 2013;24:298–302.

Jung KW, et al. Cancer Res Treat. 2017;49:306–12.

# Outline 今日のお話

## 1. General aspect

- Symptoms, diagnosis, screening, prevention
- Incidence, genetics

## 2. Treatment 治療

- Surgery 手術
- Lymph node dissection issue リンパ節郭清の問題
- Preservation of ovary, uterus 卵巣、子宮の温存
- Adjuvant treatment & follow-up 術後補助療法・
- Recent advances フォローアップ

最近の話題

# Treatment option overview

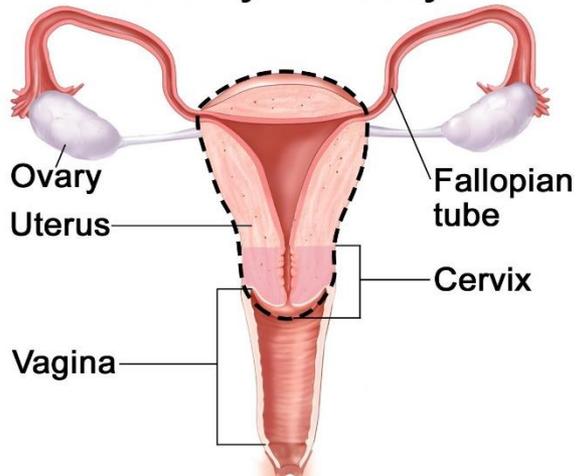
- Five types of standard treatment are used:
    - Surgery
    - Radiation therapy
    - Chemotherapy
    - Hormone therapy
    - Biologic & immunotherapy agent
  - New types of treatment are being tested in clinical trials
- さらに新しい治療の臨床試験が進行中である

## 5大標準治療

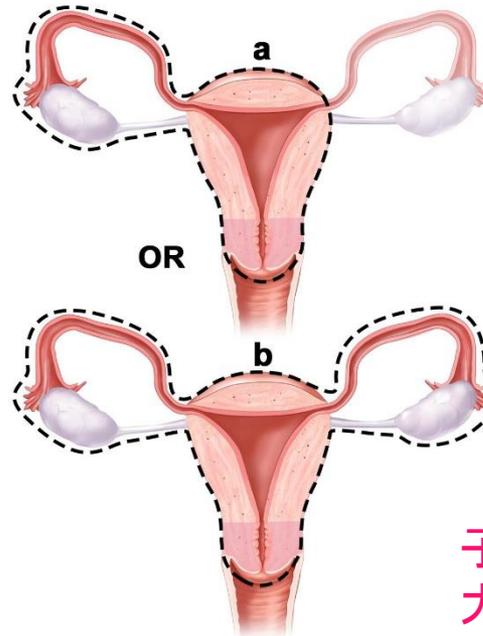
- 手術
- 放射線治療
- 化学療法
- ホルモン治療
- 免疫療法

# Surgery 手術

単純子宮全摘  
Total hysterectomy

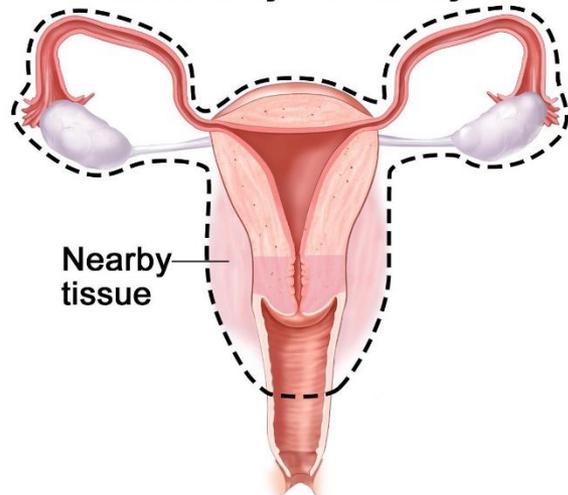


単純子宮全摘＋両側付属器切除  
Total hysterectomy with salpingo-oophorectomy

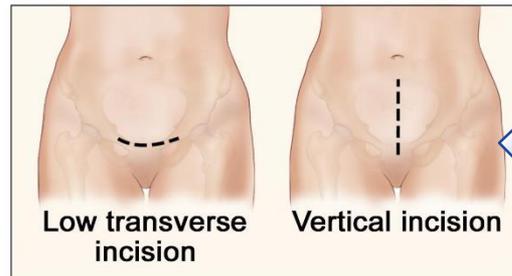


Removal of the uterus including cervix, fallopian tubes, ovaries, pelvic &/or para-aortic lymph nodes, & metastatic implants

広汎子宮全摘  
Radical hysterectomy

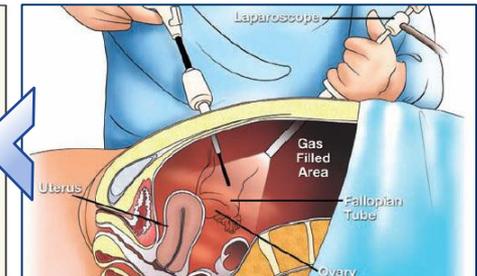


子宮、卵管、卵巣、骨盤・傍大動脈リンパ節、播種病巣の摘出



横切開

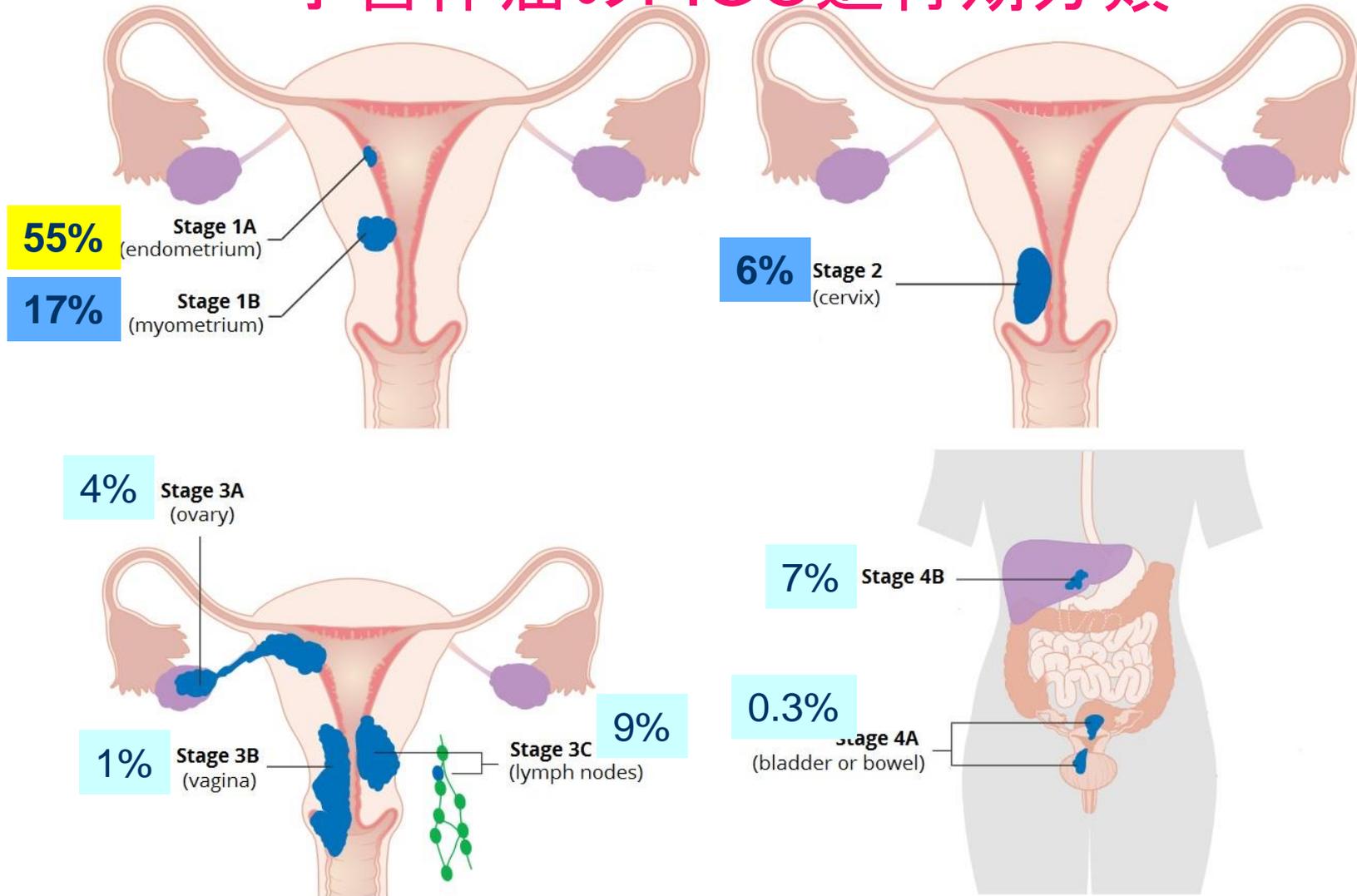
縦切開



腹腔鏡下手術

# The FIGO stage of endometrial cancer

## 子宮体癌のFIGO進行期分類



# Minimally invasive surgery

## 低侵襲手術

CQ 14



公益社団法人

日本婦人科腫瘍学会

Japan Society of Gynecologic Oncology

子宮体がん治療ガイドライン2013年版

腹腔鏡下手術は標準術式の一つとなり得るか？

推奨

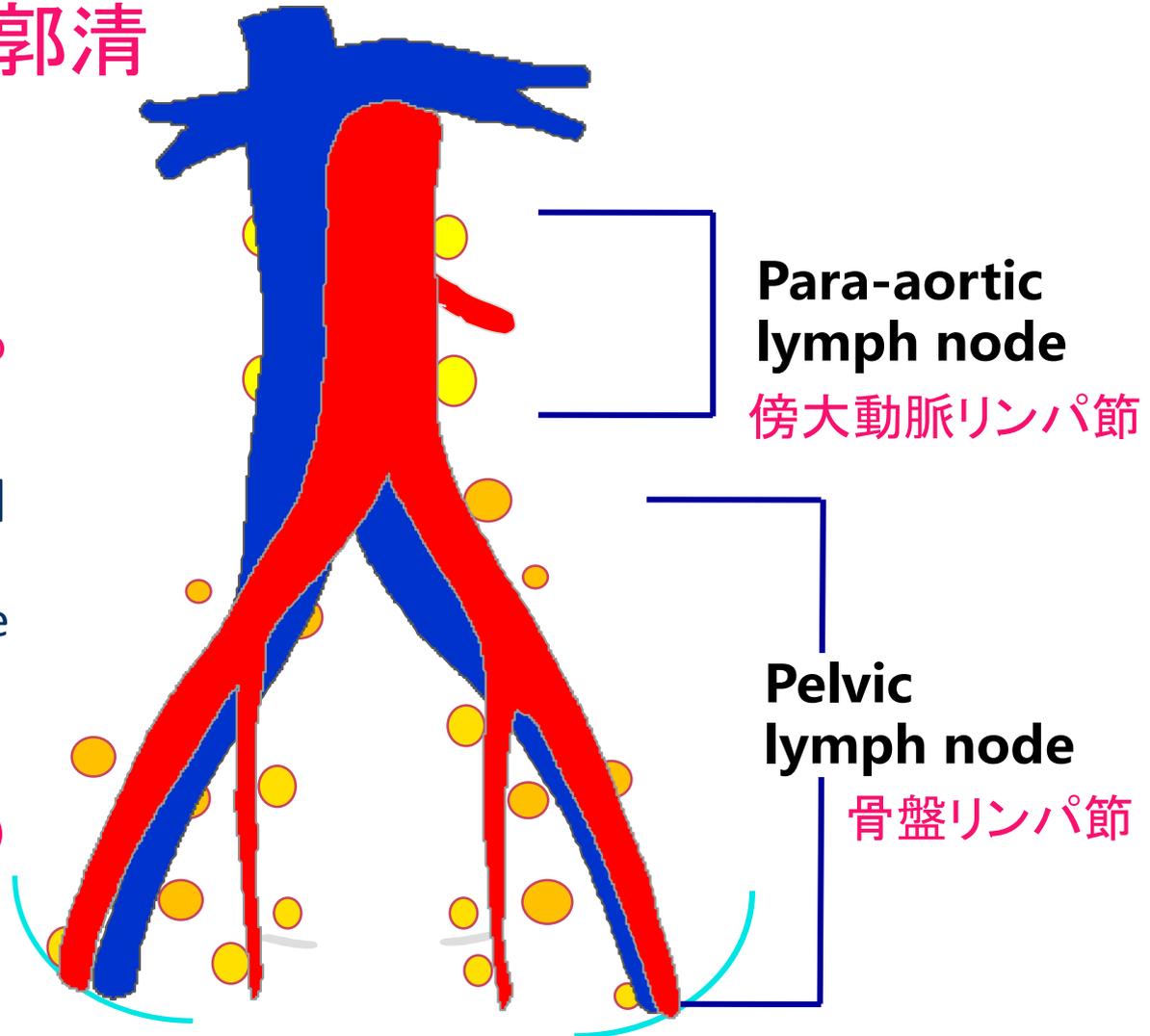
- ① 子宮内膜異型増殖症や病巣が子宮に限局し子宮頸部間質浸潤がないと予想される早期子宮体癌（I期）に対しては、症例により腹腔鏡下手術の日常診療での実践も考慮される（グレードB）。
- ② 進行子宮体癌に対する腹腔鏡下手術は奨められない（グレードC2）。

- Laparoscopic surgery would be an option for the anticipated stage I disease but not in locally advanced stage disease.

# Lymph node dissection

## リンパ節郭清

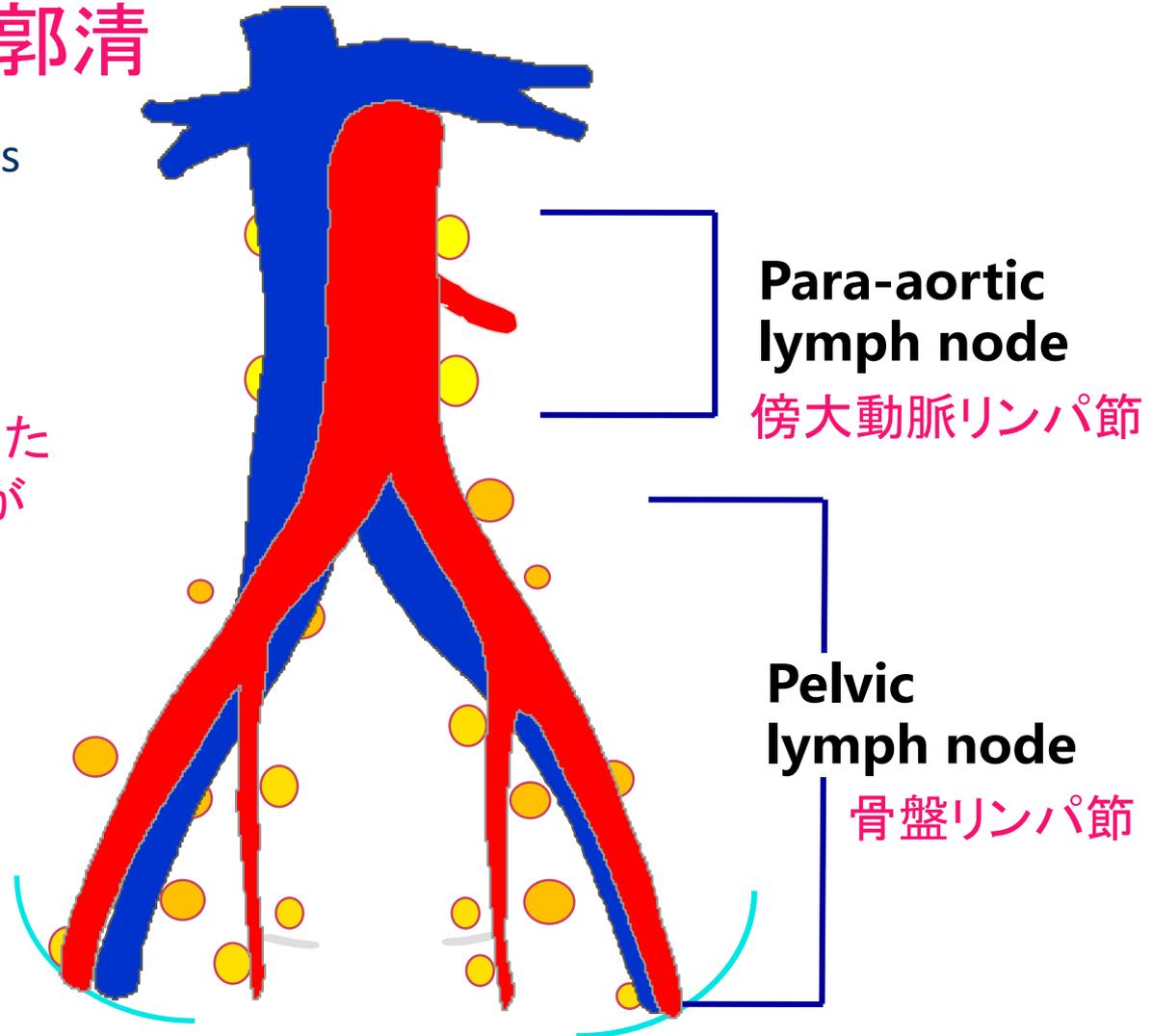
- The role of LN removal: controversial
- リンパ節郭清の意義: まだ議論の余地がある
- Low-risk tumors (well differentiated [Grade 1] and <1/2 myometrial invasion) do not require full surgical staging.\*
- 低リスク症例(高分化癌、筋層浸潤1/2未満)ではリンパ節郭清\*は必要ない。



# Lymph node dissection

## リンパ節郭清

- If lymph nod metastases identified\*\*, post-operative adjuvant therapy is needed.
- リンパ節転移\*\*を認めた場合、術後補助治療が必要となる。



# Potential complications of LND

リンパ節郭清による合併症 Lymph node dissection



子宮体癌低リスク群のリンパ節  
転移を術前に同定する

## Preoperative Identification of a Low-Risk Group for Lymph Node Metastasis in Endometrial Cancer: A Korean Gynecologic Oncology Group Study

*Sokbom Kang, Woo Dae Kang, Hyun Hoon Chung, Dae Hoon Jeong, Sang-Soo Seo, Jong-Min Lee, Jae-Kwan Lee, Jae Weon Kim, Seok-Mo Kim, Sang-Yoon Park, and Ki Tae Kim*

### CONCLUSION:

Using MR imaging and serum CA-125 as criteria resulted in the accurate identification of a **low-risk group for lymph node metastasis** among patients with endometrial cancer.

MRIとCA125の測定による低リスク群のリンパ節転移の有無を、術前に高い精度で評価することができる

- MR imaging
  - Myometrial invasion < 50%
  - No suspicious lymph node involvement
  - No extension of disease beyond corpus
- CA-125 < 35 IU/ml

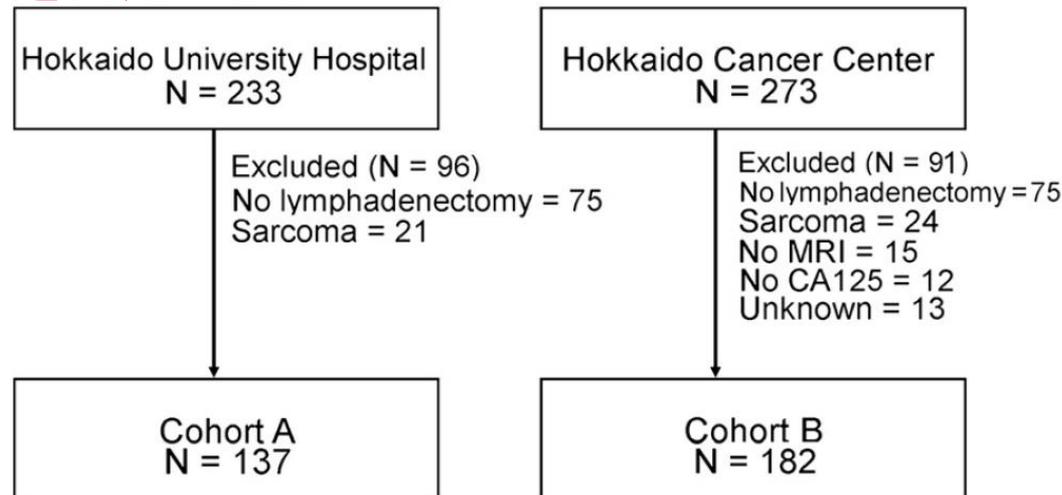
筋層浸潤 < 1/2  
腫大リンパ節なし  
子宮外進展なし



A low-risk group for lymph node metastasis is accurately identified by Korean gynecologic oncology group criteria in two Japanese cohorts with endometrial cancer<sup>☆</sup>

**The KGOG low-risk criteria** accurately identified a low-risk group for LN metz with acceptable false negativity regardless of diverse clinical settings.

KGOG低リスク群基準は施設の差に関係なく、高い精度で術前の低リスク群のリンパ節転移を同定できる



## Randomized phase III trial to confirm survival effect of para-aortic lymphadenectomy for patients with endometrial cancer (SEPAL-P3)

子宮体癌の傍大動脈リンパ節郭清による生存率への影響を調査する第3相試験

### Objective;

To prospectively investigate the survival effect of para-aortic lymph node dissection in endometrial cancer.

### Primary endpoint;

Overall survival



Professor **Hidemichi Watari**

### Secondary endpoints;

Progression-free survival, surgical factors(operation time, blood loss, transfusion), adverse events related to surgery, chemotherapy-related adverse events, recurrent sites/patterns

Pathologically confirmed endometrial cancer

病理学的に子宮体癌と診断されている

Primary registration: preoperative stage **IB to IIIC1**

operation ↓ 術前診断 IB期からIIIC1期

Secondary registration: intra-operative randomization

子宮全摘、  
両側付属器切除、  
骨盤リンパ節郭清

術式のランダム化

TAH+BSO+PLX

TAH+BSO+PLX+PALX

子宮全摘、  
両側付属器切除、  
骨盤リンパ節  
傍大動脈リンパ節  
郭清

Low-risk; NFT, Intermediate/High: TC

低リスク: 追加治療なし  
中～高リスク: TC療法

Follow-up

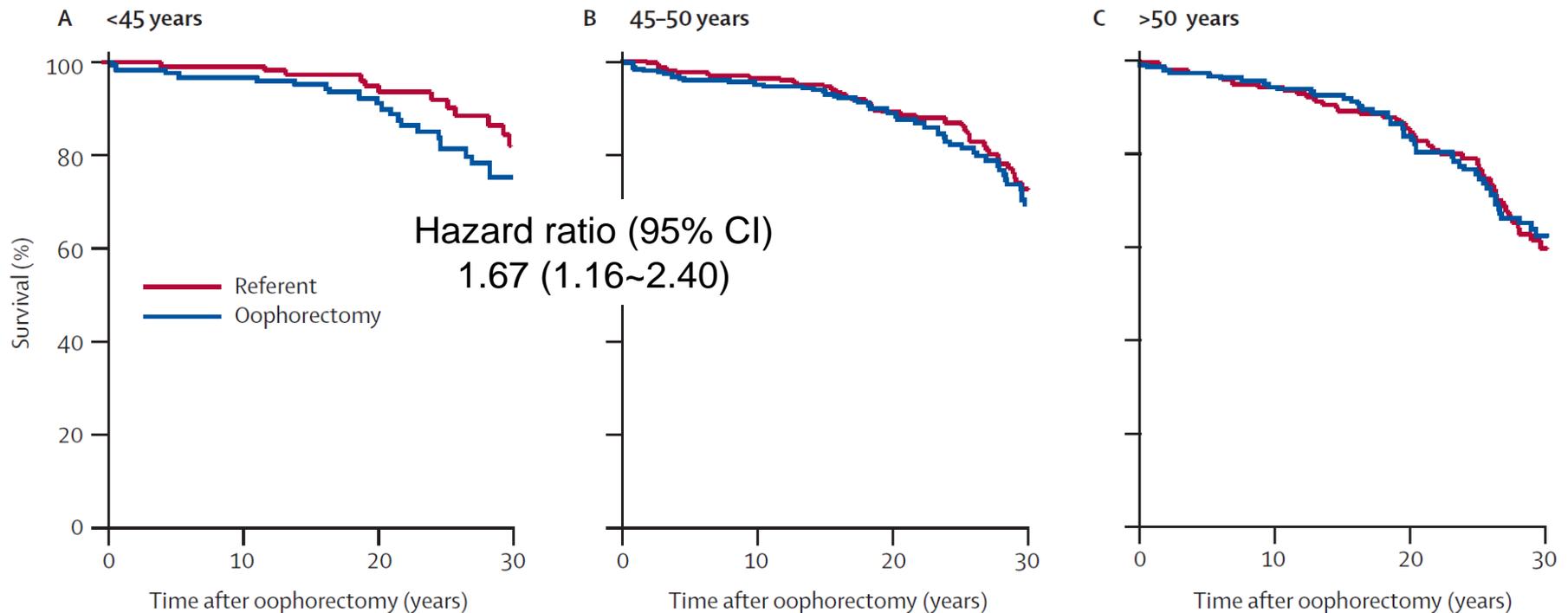
TAH, total abdominal hysterectomy; BSO, bilateral salpingo-oophorectomy; PLX, pelvis lymph node dissection; PALX, para-aortic ~; NRF, no further treatment; TC, paclitaxel & carboplatin

# Bilateral oophorectomy before age 45 years is associated with increased mortality

45歳未満の両側付属器切除が死亡率の増加に関連  
Survival patterns after oophorectomy in premenopausal women: a population-based cohort study



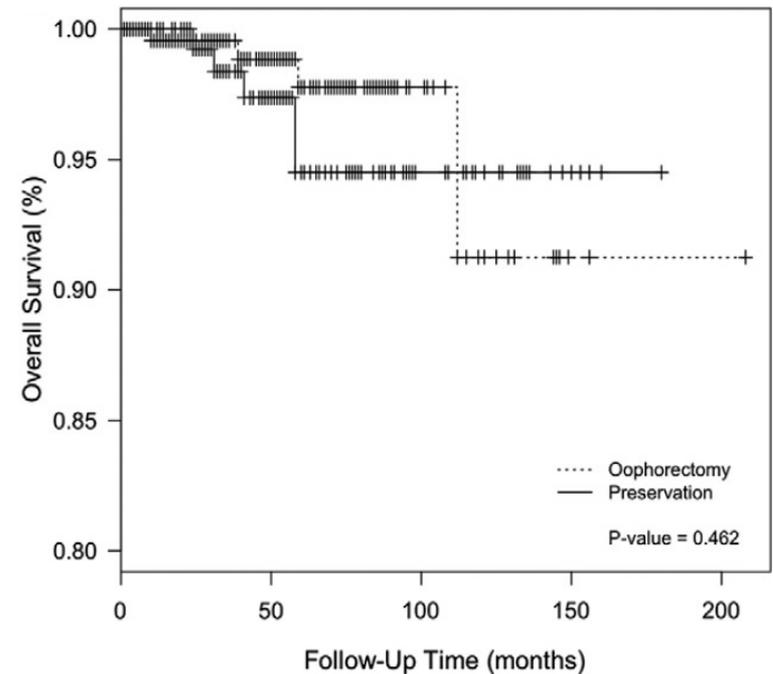
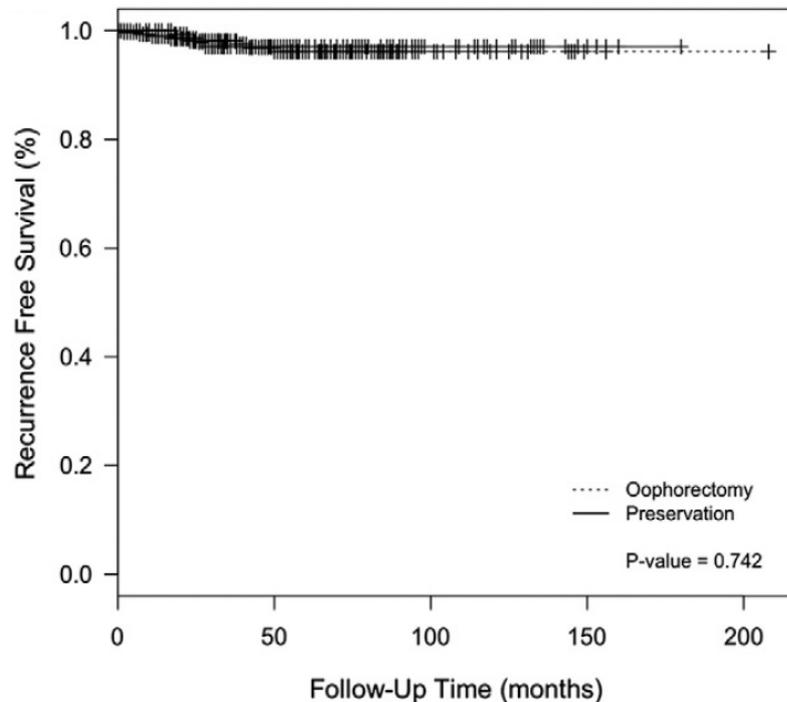
Walter A Rocca, Brandon R Grossardt, Mariza de Andrade, George D Malkasian, L Joseph Melton III



# Preservation of ovary

## 卵巣の温存

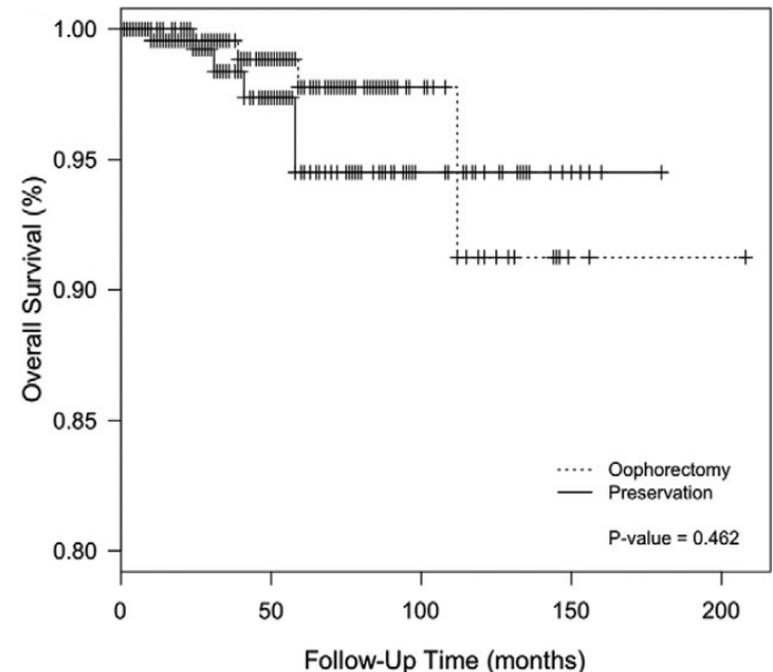
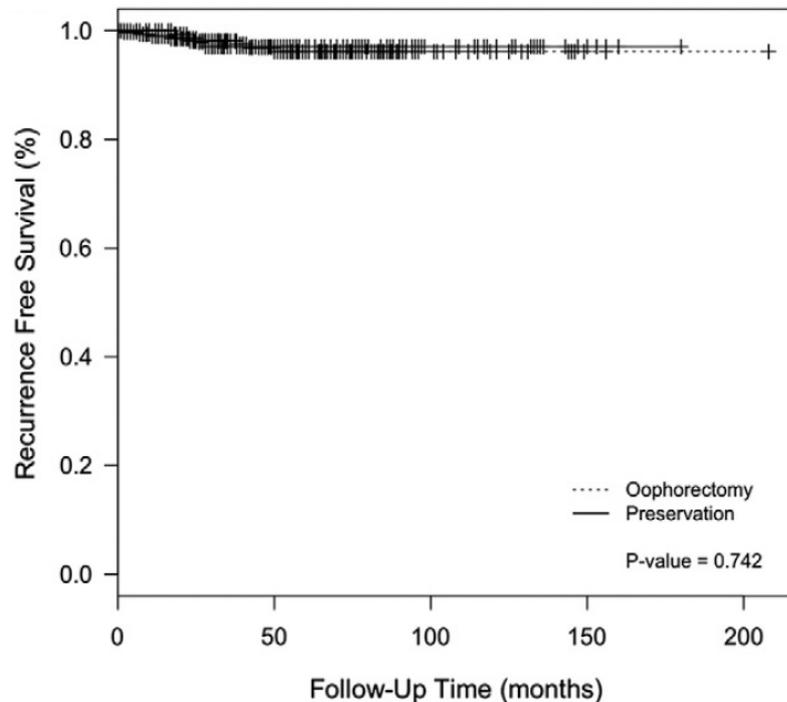
- Microscopic ovarian involvement occurred in 0.8% of patients.<sup>1</sup>
- 卵巣への顕微鏡的転移は約0.8%



# Preservation of ovary

## 卵巣の温存

- Ovarian preservation does not appear to be associated with an adverse outcomes of premenopausal women with early-stage endometrial cancer.<sup>2</sup>
- 卵巣温存は未閉経の初期癌患者予後に悪影響を与えない



# Preservation of uterus

## 子宮の温存

### Eligible criteria 適応基準

1. Younger than 40 years-old 40歳未満
2. Who want fertility sparing strongly 強い挙児希望
3. Informed consent, signed voluntarily 自発的な同意
4. Histology: endometrioid 類内膜癌G1  
adenocarcinoma, Grade 1 differentiation
5. Clinically confined to endometrium -  
No evidence of myometrial invasion and  
extrauterine spread in pelvic MR image

病変が子宮内膜に限局している

– MRIで筋層浸潤や子宮外進展を認めない

# HORMONAL THERAPY ホルモン治療

ENDOMETRIOID ENDOMETRIAL CANCER, **cT1aN0M0**, G1

MR IMAGING

類内膜癌G1、cT1aN0M0

**Medroxyprogesterone acetate (MPA) 500mg\***

MPA (高用量黄体ホルモン) 500mg ↓ **3 months 3ヶ月**

**Dilatation and curettage**

子宮内膜搔爬

**No progression**

~70%  
増悪なし

**Progression**

増悪

**MPA 500mg**

**3 months**

**Dilatation and curettage\*\***

子宮内膜搔爬

**Surgical removal of the uterus**

子宮全摘

\* 2~3 cycles

\*\* Complete response → maintenance therapy



# Adjuvant Treatment

## 術後の追加治療

- Radiation, chemotherapy, hormone therapy, immunotherapy or molecularly targeted treatments  
放射線、化学療法、ホルモン療法、免疫療法、分子標的療法
- Applied or not according to the risk of recurrence  
再発リスク分類
  - Low - 低リスク
  - Intermediate, (high intermediate) - 中リスク
  - High - 高リスク

# I、II期の術後治療

## Postoperative treatment; stage I, II

---

- No further treatment 追加治療なし
    - Grades 1, 2 lesion without myometrial invasion  
筋層浸潤を伴わないGrade1,2,
  
  - Radiation therapy 放射線療法
    - Vaginal vault irradiation (brachytherapy): favored
      - Grade 3 or lympho-vascular space invasion in stage I
    - External beam radiation 腔腔内照射  
外照射
      - Grade3または脈管侵襲を伴うI期
  
  - Radiation reduces vaginal or pelvic recurrence but has not improved overall survival (cure).  
照射線療法は腔・骨盤内再発を低下させるが、生存率を改善しなかった。
-

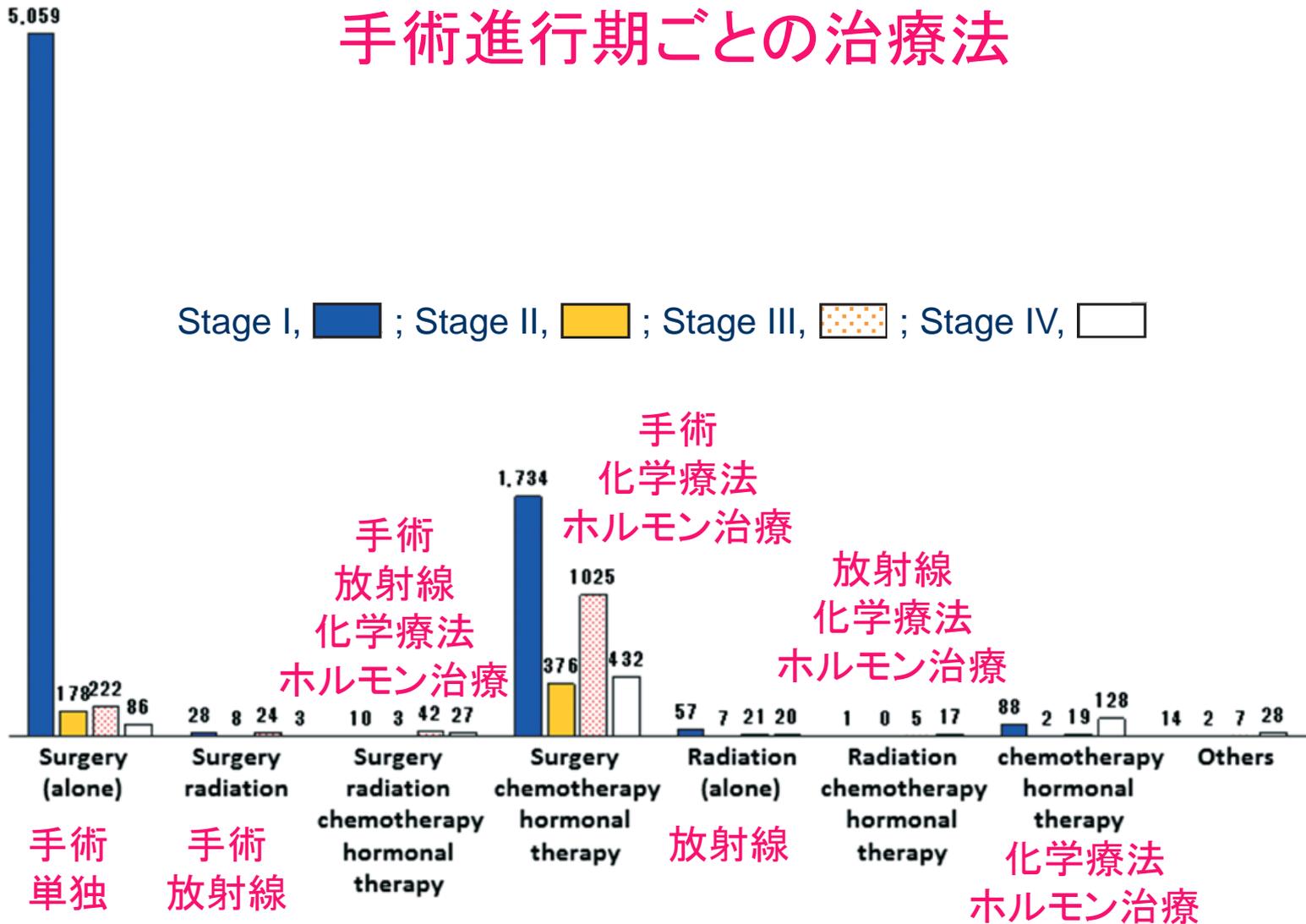
# Adjuvant radiation according to clinico-pathologic risk factors

術後放射線療法の適応は臨床病理学的なリスク因子

- ❖ Adverse risk factors リスク因子
  - Age 年齢
  - Histologic type, grade 組織型、分化度
  - Positive lymph-vascular space invasion 脈管(血管・リンパ管)侵襲
  - Tumor size 腫瘍の大きさ
  - Depth of invasion 筋層浸潤の深さ
  - Lower uterine segment involvement 子宮体下部にできた病変

# Distribution of treatment methods by surgical stages for patients with endometrial cancer in 2014 in Japan

## 手術進行期ごとの治療法



## Ⅲ、Ⅳ期の術後治療

### Postoperative treatment; stage III, IV

---

#### □ Chemotherapy 化学療法

■ Mainstay of treatment 治療の主体となる

■ paclitaxel and carboplatin パクリタキセル・  
カルボプラチン療法

#### □ Chemotherapy in combination with radiation 化学療法と放射線の併用療法

#### □ Hormonal therapy; for palliative treatment

■ Progestin ホルモン治療; 主に緩和治療として

■ Tamoxifen

- プロゲステロン(黄体ホルモン)
- タモキシフェン

■ Aromatase inhibitors

- アロマターゼ阻害薬

---

# Follow-up care

## フォローアップ

- Purpose: look for signs of cancer recurrence or treatment side effects

目的: 再発の兆候や治療の副作用をみるため

- Visit plan: every 3 months, flexible depends mostly on what stage your cancer was

通院間隔: 3ヶ月ごと、主に進行期により調整

- What to do: symptoms, pelvic examination

診察: 症状、内診

– Routine Pap, CA-125, imaging test: little value

- 定期の細胞診、CA125、画像検査はあまり有効でない

- If recurrence suspected: imaging test, CA-125, and/or biopsy

再発が疑われた場合: 画像検査、CA125、組織生検を行う

# Survivorship care plan

## 癌となつてから生活で注意すること

- Get to and stay at a healthy weight 減量、健康体重の維持
- Adopt a physically active lifestyle 体を動かす生活習慣
- Eat a healthy diet, with an emphasis on plant foods
- Limit alcohol to no more than 1 drink per day 健康的な食事  
飲酒を1日1杯までにする
- **Second cancer**
  - Colon and breast cancers are most often seen
  - Surveillance according to local guideline

## 2次癌

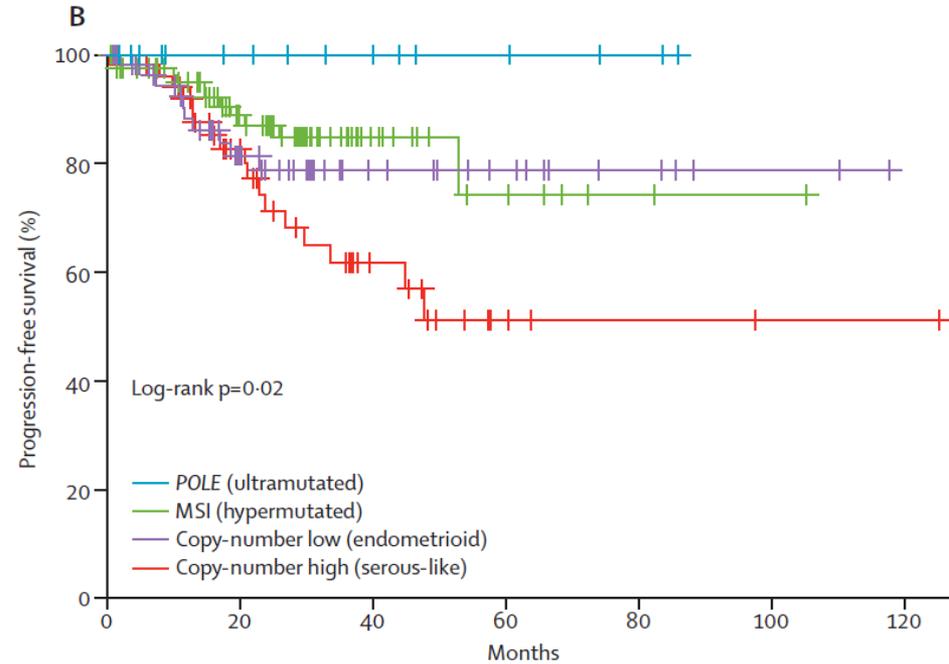
- 大腸癌、乳癌がよく併発する
- 各国のガイドラインに沿って管理

# Four distinct molecular subtypes

## 子宮体癌を4種のゲノムパターンに分類

**A**

	POLE ultramutated	MSI hypermutated	Copy-number low, MSS	Copy-number high, serous-like
Mutation load				
Somatic copy number alterations load				
Histology	Endometrioid	Endometrioid	Endometrioid	Serous and endometrioid
Grade				
PI3K alterations				
KRAS mutation				
TP53 mutation	35%	5%	1%	>90%
Prognosis	Excellent	Intermediate	Intermediate	Poor



# Integrated molecular classification of endometrial cancer

## 子宮体癌の統合的ゲノム解析

Clinicopathological features Age, stage, grade, LVSI	Mol Class 1 <i>POLE</i> mutant (i.e. <i>POLE</i> EDM)	Mol Class 2 MMRd (i.e. MSI)	Mol Class 3 NSMP (i.e. p53 wt)	Mol Class 4 p53 aberrant (i.e. p53 abn, p53-mutant)
Preoperative Low grade High grade	<u>Surgery</u>		Urgency and extent	
Stage I-II Low risk Intermediate risk High risk Stage III-IV	<u>Adjuvant treatment</u>		VBT/ EBT/ chemotherapy/ none	
	<u>Surveillance</u>		3 months/ 6 months/ annual/discharge	
Recurrent disease	<u>Targeted therapy</u>		Checkpoint inhibitors/ small molecules/ PARPi/ hormonal treatment/ mTOR inhibition	

1. Pragmatic assays
2. Combining molecular features with traditional clinico-pathologic parameters
3. More info on how to utilize this molecular classification to direct patient care

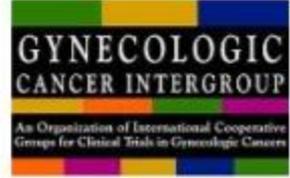
# PORTEC-4a: Randomised Phase III Trial of molecular profile-based versus standard recommendations for adjuvant radiotherapy for women with early stage endometrial cancer



Ongoing Trials – status update

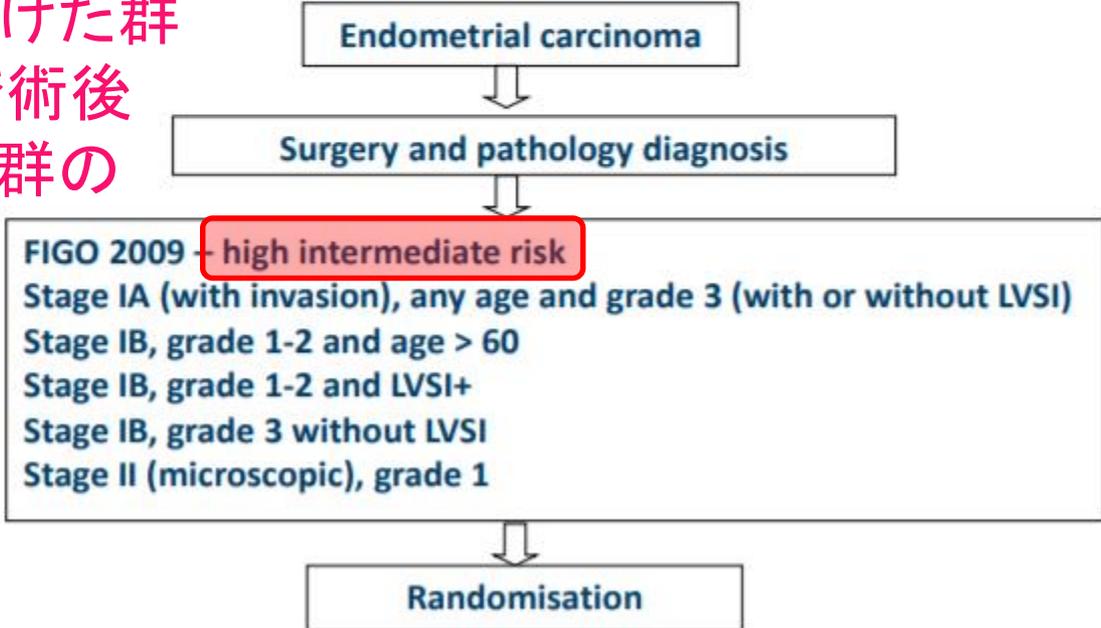


PORTEC-4a

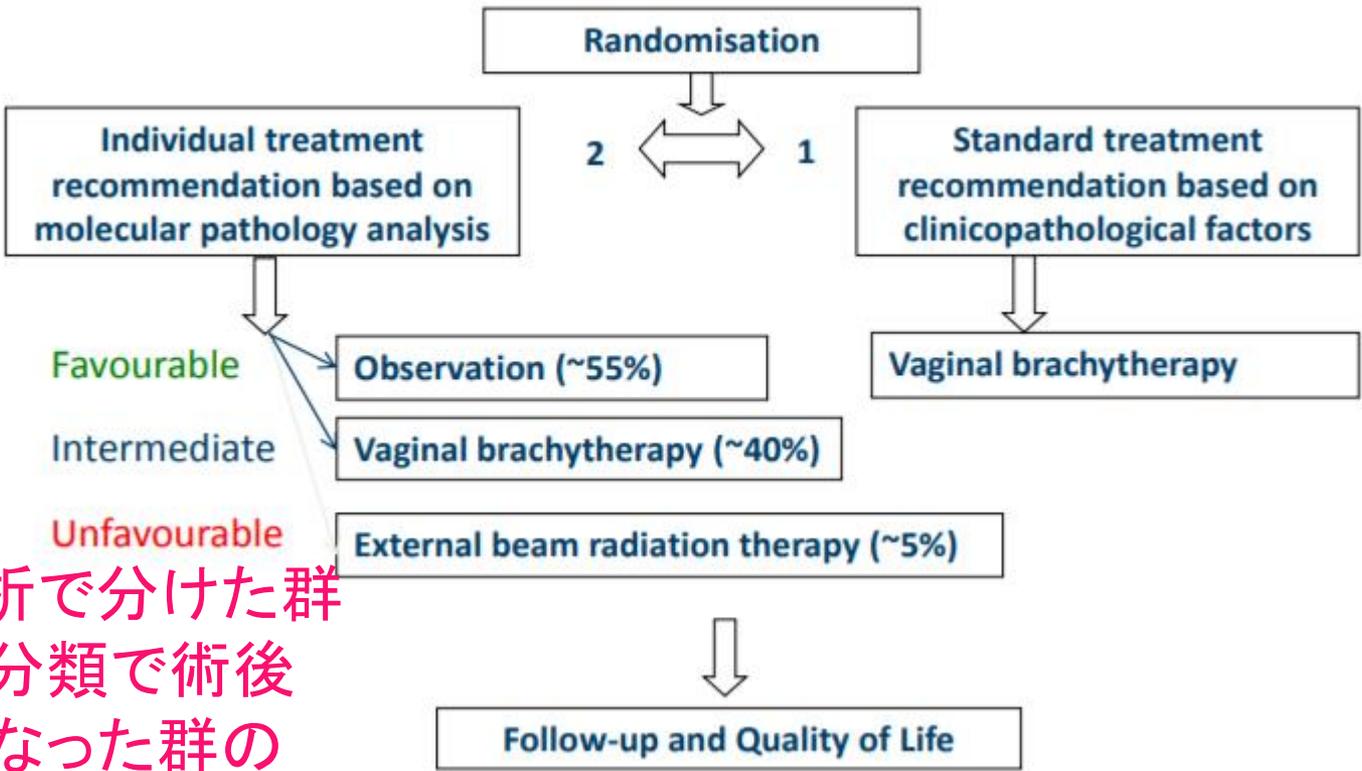


➤ Molecular integrated vs standard indications for adjuvant treatment:

ゲノム分析で分けた群  
と従来の分類で術後  
照射を行なった群の  
比較



# PORTEC-4a: Randomised Phase III Trial of molecular profile-based versus standard recommendations for adjuvant radiotherapy for women with early stage endometrial cancer



ゲノム分析で分けた群  
と従来の分類で術後  
照射を行なった群の  
比較

❖ Molecular studies including POLE CTNNB1 mutation; L1-CAM, p53 and MMR protein expression (MLH1, PMS2, MSH2, MSH6) to classify Favorable, Intermediate, and Unfavorable risk group

# Recent progress

## 最近の話題

- Lenvatinib + pembrolizumab combination  
(Anti-angiogenics + immune checkpoint inhibitor)  
レンバチニブ(血管新生阻害薬)+ペンブロリツマブ(免疫チェックポイント阻害薬)
- Patients with advanced and/or metastatic cancer 進行再発癌
- Non-microsatellite instability high (MSI-H)/proficient mismatch repair  
マイクロサテライト不安定性(MSI)がない/ミスマッチ修復遺伝子が高頻度
- Progressed after at least one prior systemic therapy  
少なくとも1レジメン以上の前治療歴のあること

Keynote 146 @ ASCO 2018

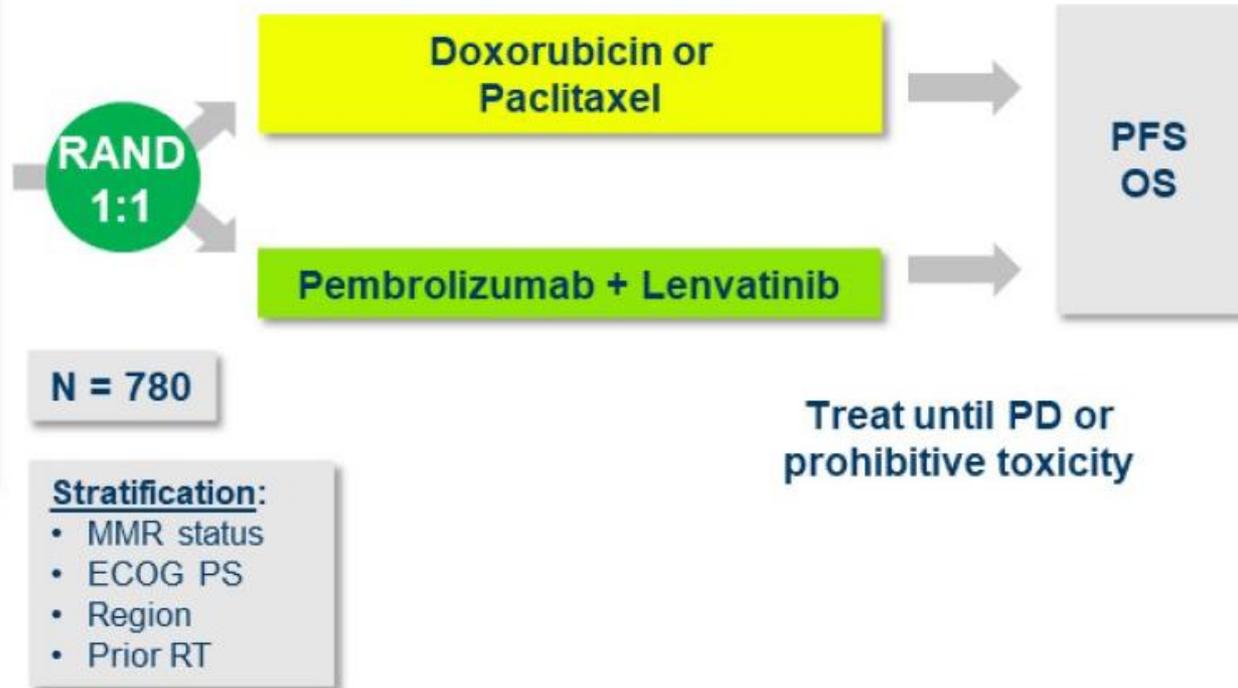
~48% objective response rate, not dependent on MSI or PD-L1 status

~48%の奏効率。MSIやPDL1の有無に依存せず縮小した

# Keynote 775 study scheme

## Patients

- Advanced / inoperable, recurrent, or metastatic endometrial carcinoma
- PD after prior platinum-based chemotherapy
- Only 1 prior line of platinum-based chemotherapy unless adj / neoadj with  $\geq 12$ m DFI
- ECOG 0-1
- Carcinosarcoma excluded



再発・子宮体癌に対する血管新生阻害薬・免疫チェックポイント阻害薬の臨床試験

# Outline

## 1. General aspect

- Symptoms, diagnosis, screening, prevention
- Incidence, genetics

## 2. Treatment

- Surgery
- Lymph node dissection issue
- Preservation of ovary, uterus
- Adjuvant treatment & follow-up
- Recent advances



公益社団法人

日本婦人科腫瘍学会

Japan Society of Gynecologic Oncology

■ 治療ガイドライン

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2013年12月18日発行

第1章 ガイドライン総説	(PDF/240KB)
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<https://www.jsgo.or.jp/guideline/taigan.html>

患者さんご家族のための

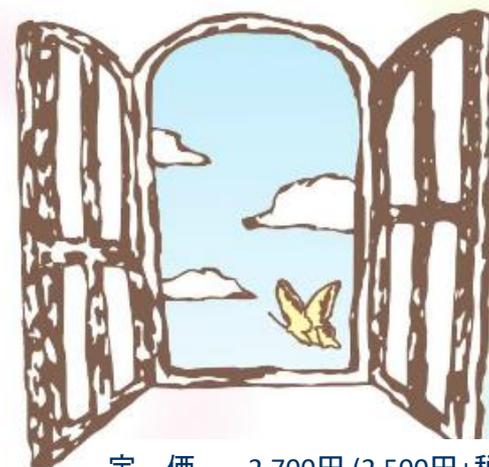
# 子宮頸がん 子宮体がん 卵巣がん

## 治療ガイドライン

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Thank you.  
ありがとうございます。