

EAGOT
Cervical Cancer Committee

Multi-institutional retrospective study on
chemotherapy and pelvic radiotherapy for
stage IVB cervical cancer □ JGOG1088S □



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Our Clinical Question

Pelvic irradiation is useful for metastatic (FIGO stage IVB) uterine cervical cancer?

Patient	<input type="checkbox"/> FIGO stage IVB cervical cancer
Intervention	<input type="checkbox"/> Additional Pelvic irradiation
Control	<input type="checkbox"/> Chemotherapy (without RT)
Outcome	<input type="checkbox"/> OS improvement

Standard therapy for FIGO IVB cervical cancer



National
Comprehensive
Cancer
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NCCN Guidelines Version 1.2023 Cervical Cancer

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National Comprehensive
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NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

Cervical Cancer

Version 1.2023 — April 28, 2023

[NCCN.org](https://www.nccn.org)

NCCN Guidelines for Patients® available at www.nccn.org/patients

Standard therapy for FIGO IVB cervical cancer

1. Systemic Chemotherapy if in good general condition
(Paclitaxel, CDDP/Carboplatin \pm bevacizumab)
2. If distant metastases is oligometastasis and can be irradiated,
Radiotherapy for
 - Primary lesion
 - Regional pelvic nodes
 - Distant metastases
3. Palliative radiotherapy for symptom relief



Standard therapy for FIGO IVB cervical cancer

1. Systemic therapy (Paclitaxel)
 - Indication of RT for IVB cervical cancer
 - 1) Disease control for case with oligometastasis
 - 2) Symptom control (palliation)
2. If distant metastasis is present
 - Radiotherapy for
 - Primary lesion
 - Regional pelvic nodes
 - Distant metastases
3. Palliative radiotherapy for symptom relief



Standard therapy for FIGO IVB cervical cancer

1. Systemic

(Paclitaxel)

Indication of RT for IVB cervical cancer

- 1) Disease control for case with oligometastasis
- 2) Symptom control (palliation)

2. If distant

Radiotherapy for

- Primary lesion

What, When and How should we give RT therapy for stage IVB patients ??

3.



Effectiveness of local treatment in other types of metastatic disease

1. Metastatic prostate cancer

- Significant OS/PFS benefit in Chemo + local RT > Chemo

Parker et al. Lancet 2018

2. Advanced small cell lung cancer

- Significant OS/PFS benefit in Chemo + following chest RT > Chemo

Slotman et al. Lancet 2015

3. Metastatic colon cancer

- Equivalent survival rate □
Chemo □ Primary resection following chemo

Kanemitsu et al. JCO 2021

Effectiveness of local treatment in other types of metastatic disease

1. Metastatic prostate cancer

- Significant OS/PFS benefit in Chemo + local RT > Chemo

Parker et al. Lancet 2018

2. Advanced

- Significant OS benefit in Chemo + local RT > Chemo
- “Local treatment”
is one of the important treatment strategies for metastatic cancer

est RT
Lancet 2015

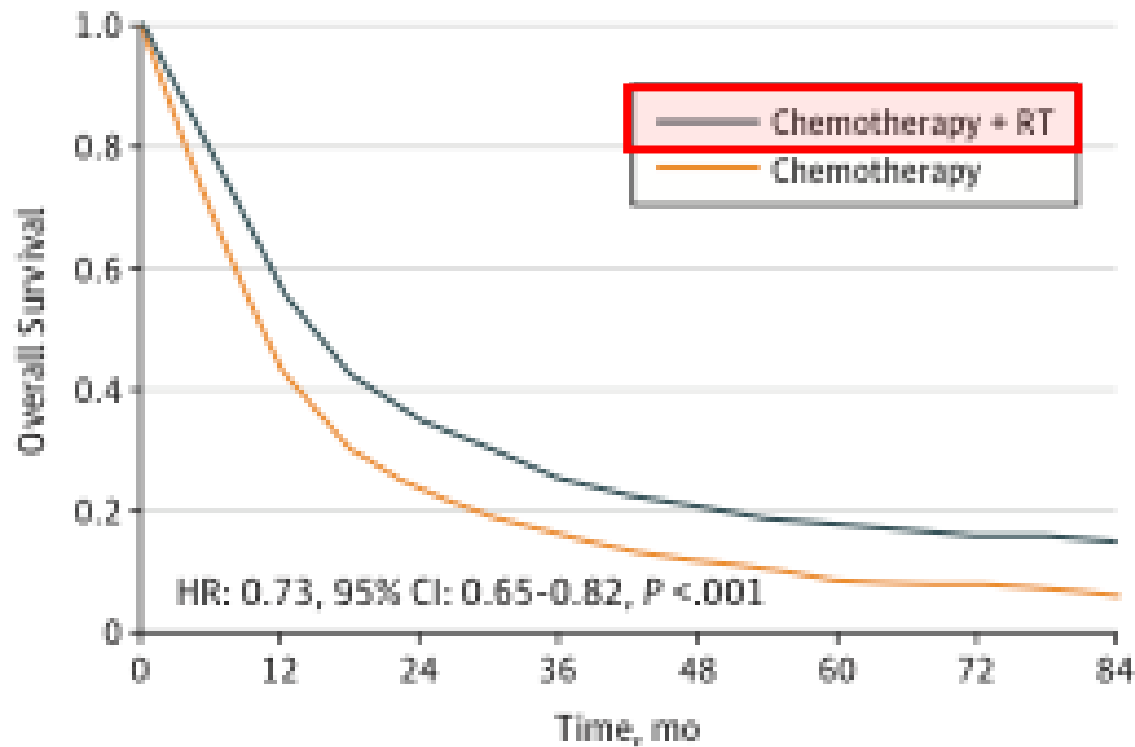
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Kanemitsu et al. JCO 2021

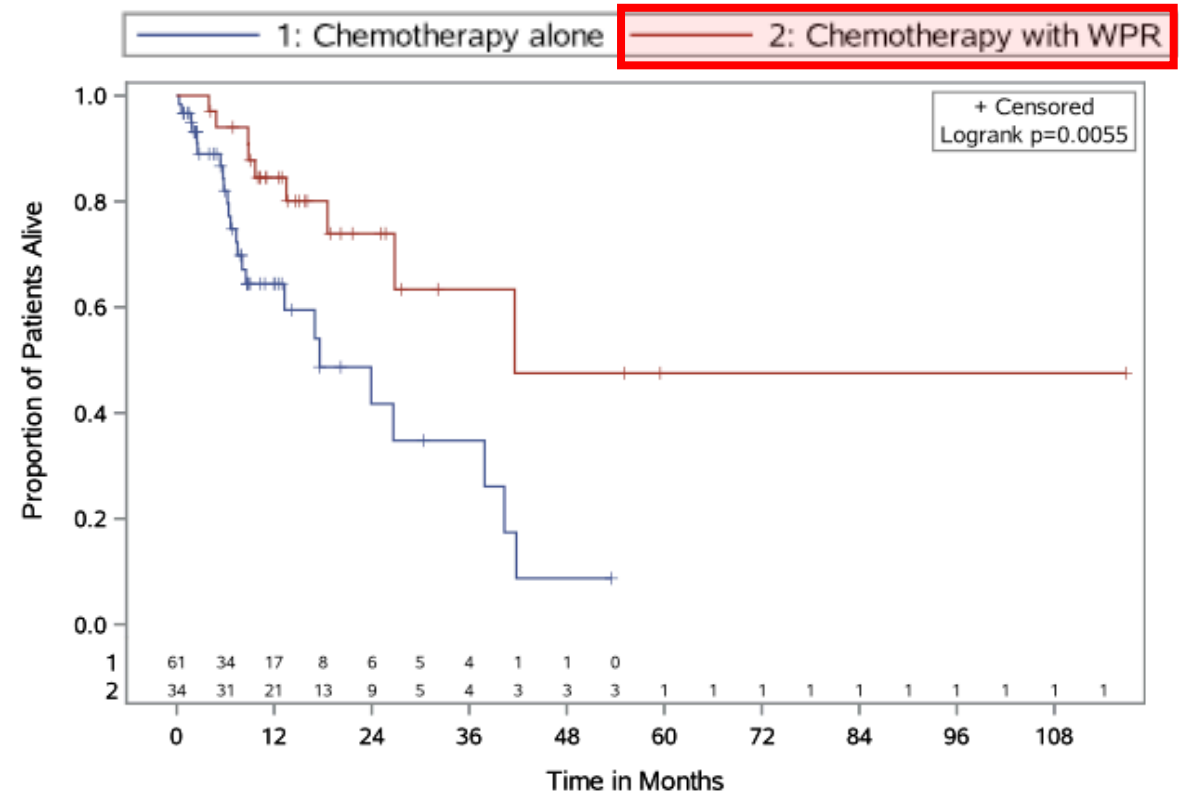
Additional radiotherapy for FIGO IVB Cervical Cancer

Some retrospective studies has been reported showing **a survival benefit** with the **addition of whole pelvic irradiation** in the initial treatment of stage IVB.



U.S. National Cancer Database

Wang et al. JAMA oncology 2018

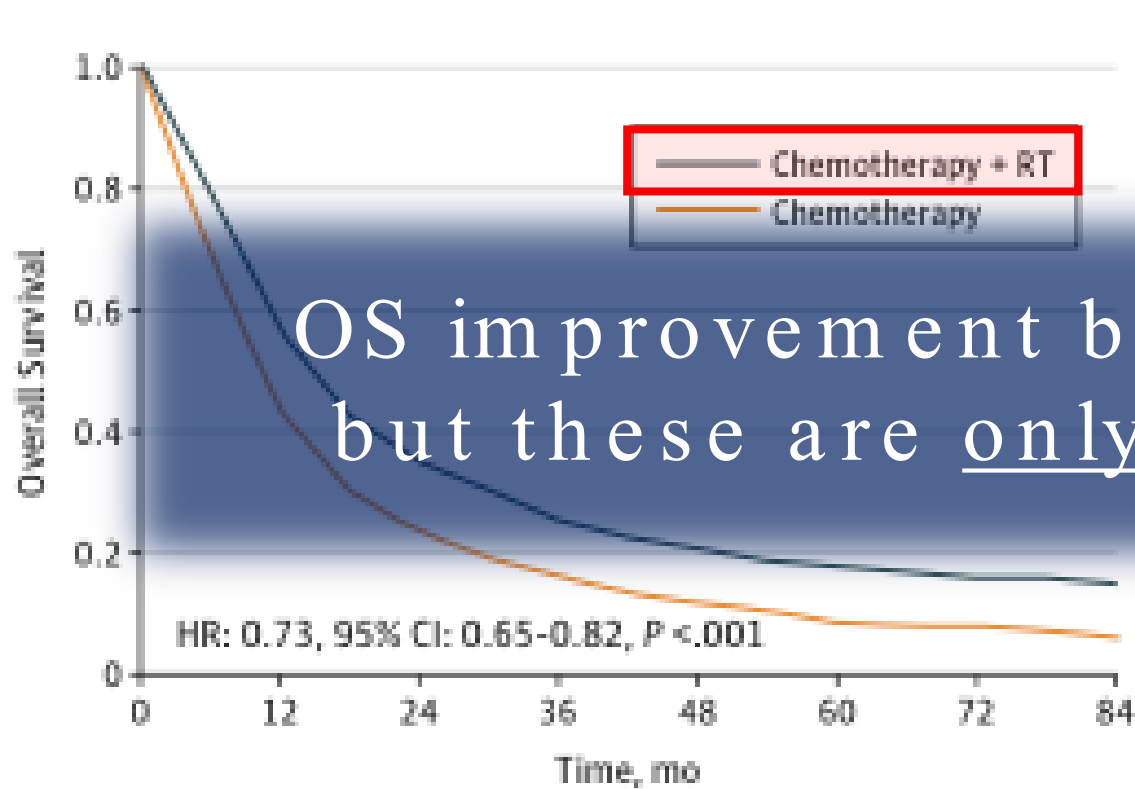


Retrospective review of several U.S. facilities

Perkins et al. Gynecol Oncol 2020

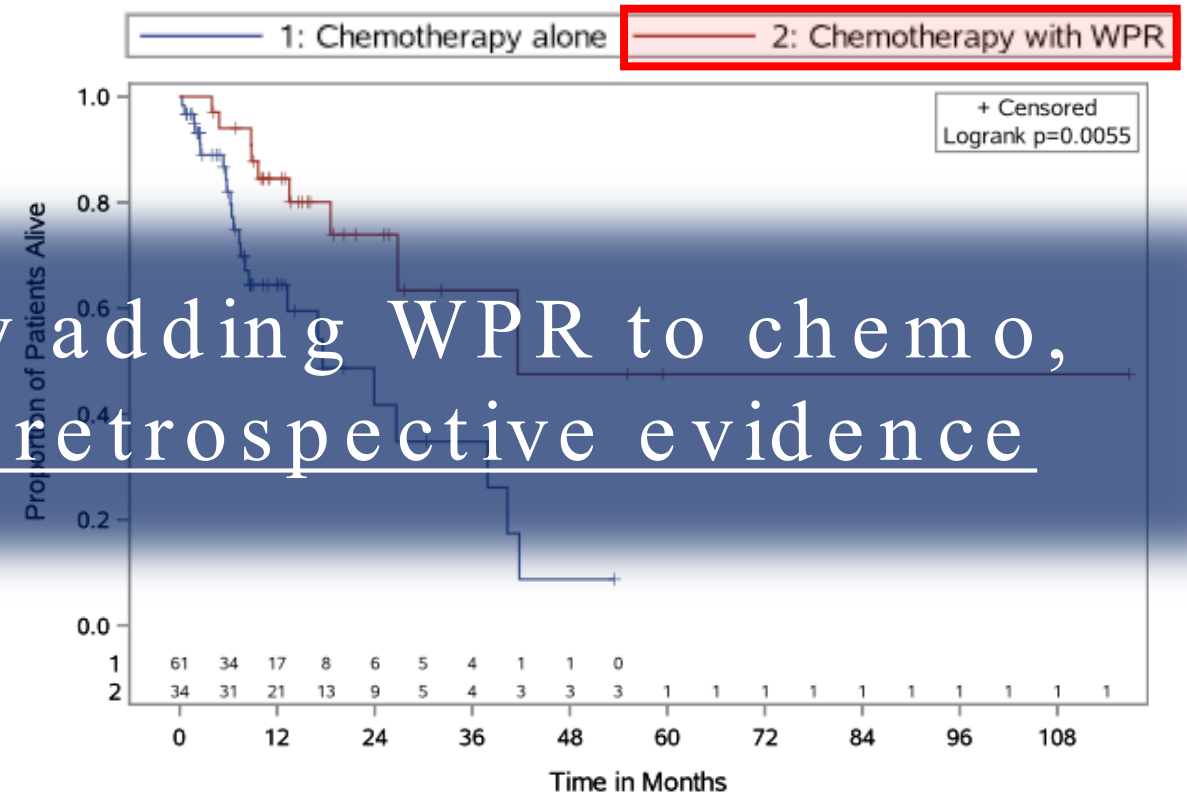
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Summary □ radiotherapy for IVB cervical cancer

Primary/initial Whole Pelvis Radiation may

- ✓ reduce pelvic tumor-relates symptoms
(bleeding, pain, ureteral obstruction □ □ □)
- ✓ improve survival

But,

- These evidence was only from some retrospective studies,
- Indication? IVB is extremely heterogeneous population
- Procedures? RT→Chemo □ Chemo→RT? Irradiation area? Dose?

We decided to conduct a retrospective observational study

Research organization and future prospects



Japanese gynecologic Oncology Group

□ Gynecologic Oncologists □



Japanese Radiation Oncology Study Group

□ Radiation Oncologists □

Retrospective study

→ prospective RCT (chemo vs chemo+ WPR)

Inclusion criteria, Endpoints...

Inclusion criteria

1. 18 years old or older
2. Histologically diagnosed uterine cervical cancer (SCC, Adeno, or Adenosq)
3. Primary stage FIGO IVB
4. Who received Platinum doublet chemotherapy 4 cycles or more, or received chemotherapy and pelvic radiotherapy as primary treatment

Endpoints

Primary ☐ OS

Secondary ☐ PFS, AE(urinary, gastro-intestinal, bleeding)

Planned enrollment 300 cases

What is your opinion or situation about RT for IVB cases?



Back up slides

Survey in JROSG

Q1 □

Number of cases in which pelvic radiotherapy was initiated for stage IVB cervical cancer between 2016 and 2020

→ 203 cases □ 14 facilities □

In the above cases,

Q2 □

Number of cases with organ metastasis

→ 107 (53%)

Q3 □

Number of cases in which radiotherapy was administered as first-line treatment (without prior chemotherapy).

→ 150 (74%)