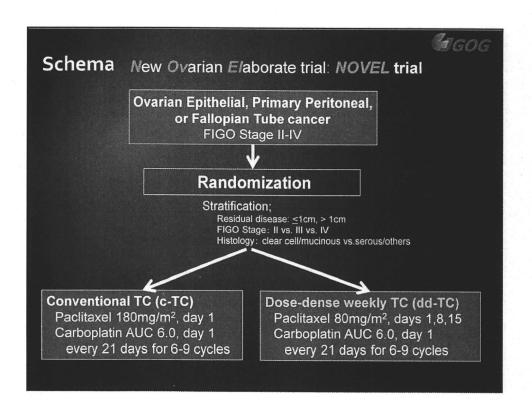


Background -1-

- Three large randomized phase III trials conducted by US GOG have shown significant improvement of OS and/or PFS on ovarian cancer by applying the IP cisplatin-based chemotherapy.
- Metaanalysis of IP chemotherapy showed reduction of Hazard Ratio to 22%, and NCI US has published a clinical announcement recommending IP chemotherapy for optimally debulked stage III ovarian cancer patients.
- Despite these facts, IP chemtherapy has not been applied as standard chemotherapy for this patient population.
- One of the reason for this is the use of cisplatin as IP chemotherapy agents, although current standard agent is carboplatin, when given IV route.

Background -2-

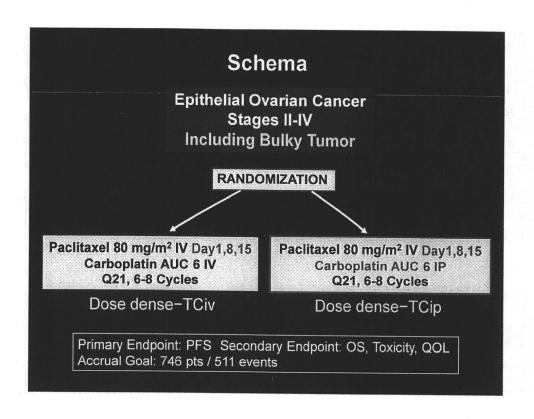
 JGOG3016 Trial showed a significant improvement of PFS and OS by using dose-dense weekly administration of paclitaxel compared with conventional triweekly administration of paclitaxel in combination with tri-weekly administration of IV carboplatin.

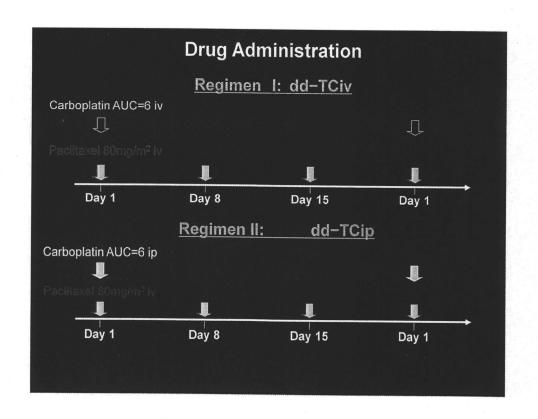


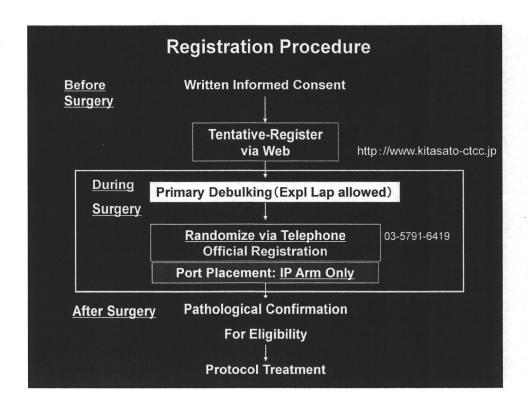


Purpose

 To compare the efficacy and safety of IP carboplatin with current standard IV route in combination with dose-dense weekly schedule of IV paclitaxel administration.







Key Eligibility

- 1) The patient must be planned to undergo laparotomy surgery.

 Since this trial includes patents with both optimal and

 suboptimal residual disease, the patients anticipating with

 exploratory laparotomy are also eligible.
- 2) Patient who is preoperatively anticipated to be FIGO II to IV epithelial ovarian, fallopian tube or primary peritoneal cancer is eligible for Pre-Registration. And the patient must be clinically stage II-IV at the time of Formal Registration.
- 3) Patient who singed the consent for the placemat of IP port system when she is assigned to the IP Arm.

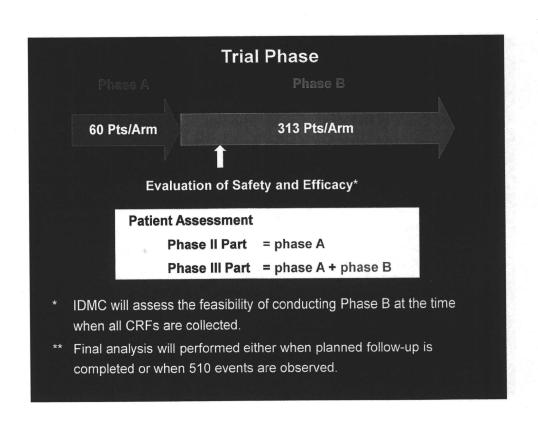
Eligibility Continued

- 4) The patients who are planned to receive chemotherapy within 8 weeks after initial surgery.
- 5) ECOG Performance Status must be 0 2
- 6) Patient must have adequate organ functions.
- 7) Survival can be expected 3 month or more.
- 8) Age 20 or older
- 9) Written Informed Consent.

Exclusion

- 1) Patients with Borderline Malignancies.
- 2) Patients who have received chemotherapy or radiation therapy for the current disease before enrolment.
- 3) Patients with any of active concurrent malignancies or past history of malignancies of which the follow up is within 5 years.
- 4) Patients with severe complications: Patients with severe heart disease or cerebro vascular disease, or uncontrolled diabetes or hypertension, pulmonary fibrosis, interstitial pneumonitis, active bleeding, active gastrointestinal ulcer, or sever neuropathy.
- 5) Patients with history of hypersensitivity polyoxyethylene castor oil.
- 6) Patients with pleural effusion that need continuous drainage.
- 7) Patients with active infectious disease.
- 8) Patients with possibility of pregnancy, or under breast-feeding.
- 9) Patients with symptomatic brain metastasis.
- 10) Patients whose circumstances at the time of entry onto the study would not permit completion of study or required follow-up.

Protocol Treatments Control Arm Regimen I: dd-TCiv Day 1, 8, 15 : 80mg/m² 1 hr iv Paclitaxel Day 1 : AUC=6.0 1 hr iv Carboplatin **Experimental Arm** dd-TCip Regimen II: Day 1, 8, 15 : 80mg/m² 1 hr iv **Paclitaxel** : AUC=6.0 Day 1 one shot ip Carboplatin • Q 21 days/1 Cycle Repeat 6 to 8 cycles。 • IDS can be performed after 3 to 5 cycle, and up to 3 additional cycles can be administered • If IDS is not undergo, protocol treatment should be completed at 6 cycle.



Endpoints • Phase II Part (phase A) Feasibility (treatment completion rate, toxicity, response rate, etc) Phase III Part (phase A + phase B) Primary Endpoint: **PFS** Secondary Endpoint: OS Response Rate (only for measurable disease) **Toxicity Treatment Completion Rate** QoL Cost Effectiveness

	Value
ANC	≧1,000 /mm³
PLT	≧75,000 /mm³
Peripheral Neuropathy	≤Grade1
Other Non-Hem Tox (Except alopecia, fatigue, nause	a, constipation)
Up to 3 weeks delay will be accep 8 and 15	otable
o and to	
o and 10	Value
ANC	Value ≧500 /mm³

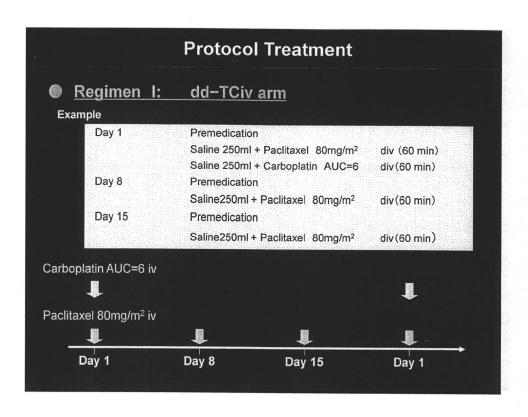
Dose Reduction Criteria

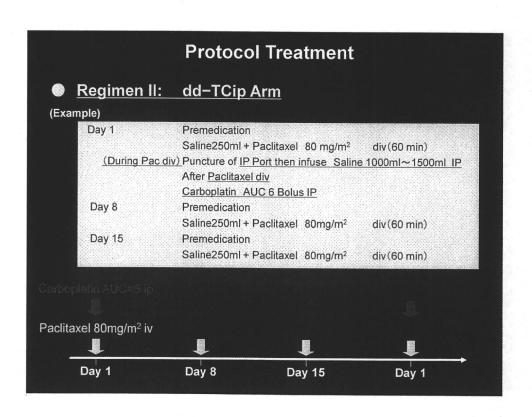
Criteria	Agent
Delay 2 week to 3 week	Both Pacalitaxel and Carboplatin -1 Level
DLT-ANC*	
DLT-PLT**	
Grade 3 Non-Hem Tox in the previous cycle	
(Except Fatigue, Nausea/Vomiting,	
Constipation, and Peripheral Neuropathy)	
Peripheral Neuropathy ≥ Grade 2	Paclitaxel only
	-1Level

- *DLT-ANC
- ① Febrile Neutropenia
- ② G 4 Neutropenia \geq 7 days despite the use of G-CSF
- **DLT-PLT
- ① Grade 4 thrombocytopenia
- ② Grade 3 thrombocytopenia with hemorrhage or platelet transfusion

Dose Modification

Level	Paclitaxel (mg/m²)	Carboplatin (AUC)
0	80	6.0
-1	70	5.0
-2	60	4.0
-3	off protocol	off protocol





Statistical Considerations

Phase II Part

Target 120 (60/Arm)

Simulation calculation based on JGOG3016 trial results

Accuracy 15% of 95% CI gives 46 pts per arm.

Assumption: IP arm may lower completion rate, higher

Target accrual set to 60 patients per arm

Statistics -continued-

Phase III Part

Target 746 or 510 Events

3 Year Enrollment and 3 Year Follow-up

JGOG3016 Trial: PFS of dd-TC Arm = 28 months

IP Trial Meta-analysis: Hazard Ratio = 21.6% Decrease in favor of

IP

alpha 5% (two tailed)

Power 80%

Statistical Considerations

Interim Analysis

For efficacy: 3.5 years after starting enrollment or 255 events. Significancy 0.3% for interim, 4.7% for final analysis

Futility Analysis: Every year after 2nd year of enrollment.

QOL

Before Trial

CTCC.

Register institutional coordinator who take QOL to the Kitasato-

The institutional QOL coordinator send the forms to KCTCC.

QOL Measurement

FACT-O

FACT-Cx

FACIT Fatigue sub scale

EQ-5D (EuroQol 5 Dimension)

ECOG Performance Status

Schedule (Equal to GOG252)

Before Treatment

After 3 Cycle or 9 weeks after treatment initiation.

After 6 cycle or 18 weeks after treatment initiation.

6 month after end of the 6th cycle of treatment

1 Year after end of the 6th cycle of treatment

2 Year after end of the 6th cycle of treatment

Cost Analysis

Purpose

Cost Analysis Comparison between IP/IV carboplatin treatment in ovarian, peritoneal, and tubal cancer.

Objects (Japanese Only?)

Institution: Institutional support with IRB approval for Cost analysis.

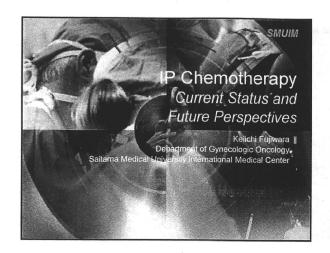
Sample Size: approximately 200

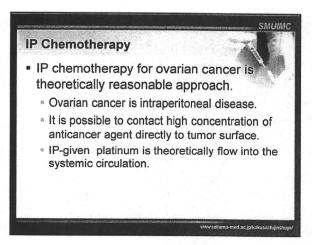
Methods

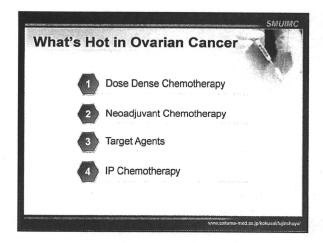
Cost-Effectiveness Analysis Cost-Utility Analysis

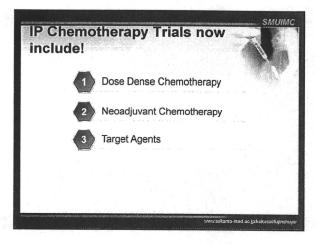
Thank you!

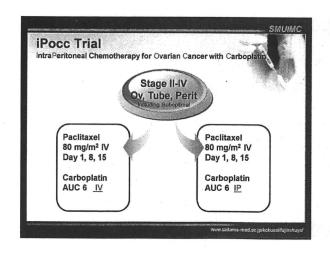
• We look forward to your participations.

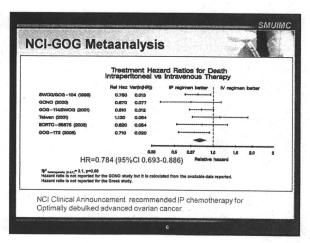


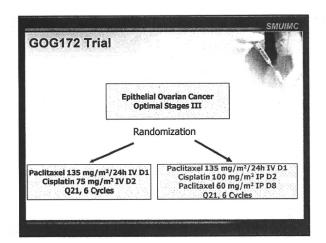


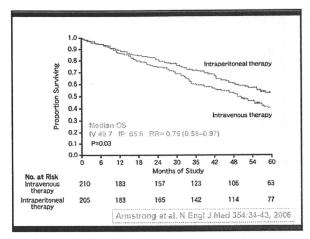


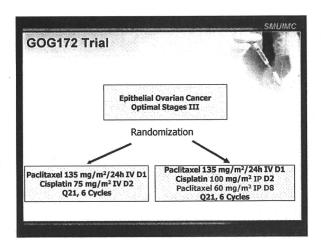


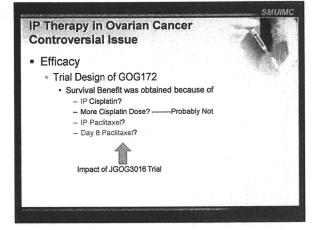


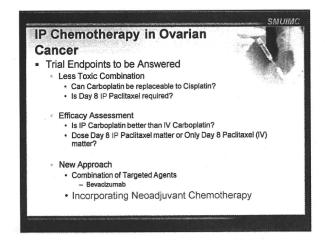


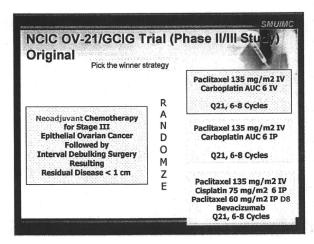


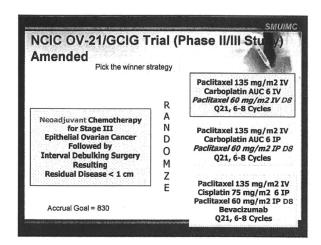


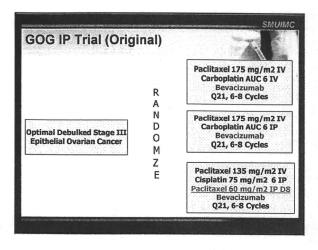


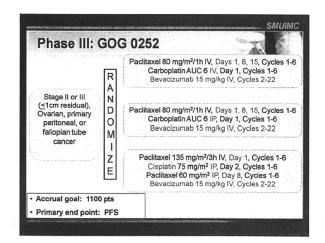


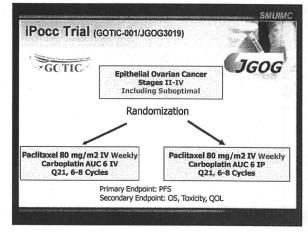


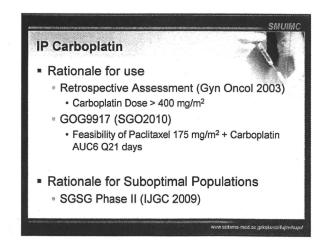


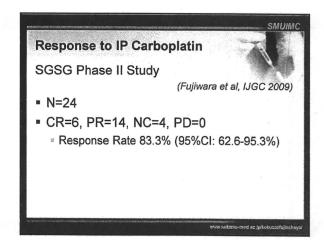


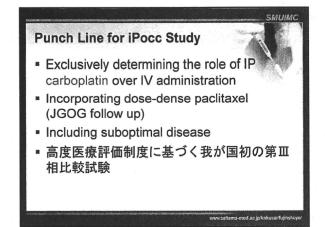






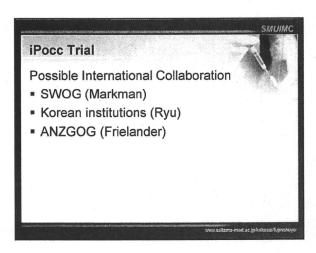


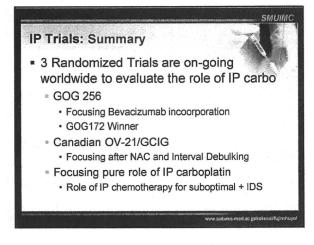


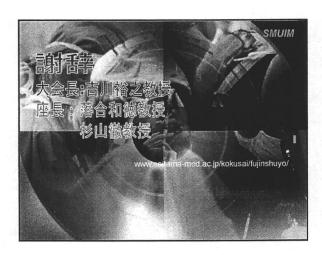


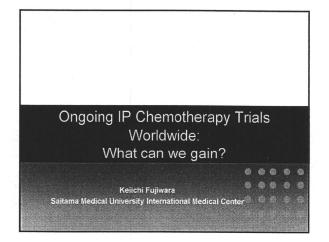


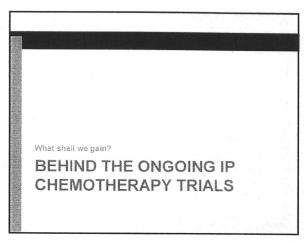


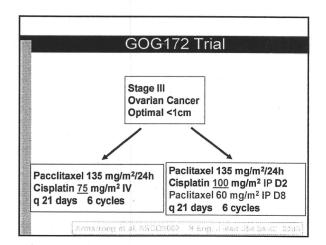


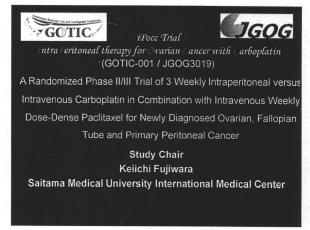


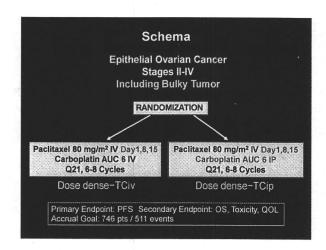


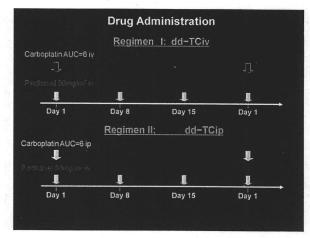


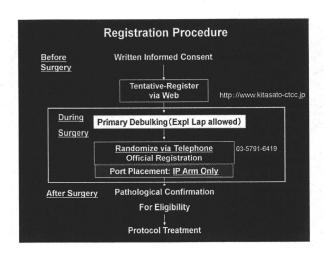












Key Eligibility

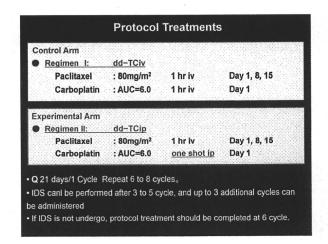
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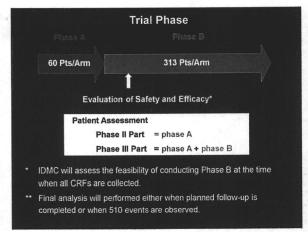
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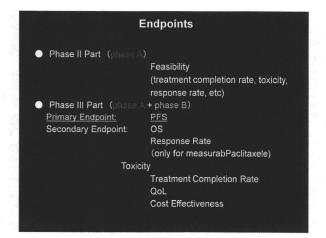
9) Written Informed Consent.

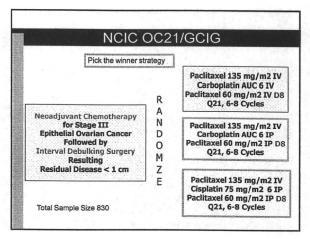
Eligibility Continued

Exclusion 1) Patients with Borderline Malignancies. 2) Patients who have received chemotherapy or radiation therapy for the current disease before enrolment. 3) Patients with any of active concurrent malignancies or past history of malignancies of which the follow up is within 5 years. 4) Patients with severe complications: Patients with severe heart disease or cerebro vascular disease, or uncontrolled diabetes or hypertension. pulmonary fibrosis, interstitial pneumonitis, active bleeding, active gastrointestinal ulcer, or sever neuropathy. 5) Patients with history of hypersensitivity polyoxyethylene castor oil. 6) Patients with pleural effusion that need continuous drainage. 7) Patients with active infectious disease. 8) Patients with possibility of pregnancy, or under breast-feeding. 9) Patients with symptomatic brain metastasis. 10) Patients whose circumstances at the time of entry onto the study would not permit completion of study or required follow-up.









New Key Evidences since 2006

- EORTC55971 (IGCS2008, NEJM 2010)
 - NACT + IDS + ACT=PDS + ACT
- \$\displaysquare\$ JGOG3016 (Lancet 2009)
 - Dose-dense weekly paclitaxel: better than 3 weekly paclitaxel
- &GOG218 (ASCO2010)
 - Incorporation of Bevacizumab with chemo + maintenance: better than chemo alone

Based on the EORTC55791 trial

- There will be a trend of more NACT + IDS approach
 - Does this mean that there will be less room for IP chemotherapy?
 - Under the current concept of IP chemotherapy being effective only for small residual disease?
- ***Questions** for the Future
 - What will be the
 - · Role of IP chemotherapy upfront?
 - Role of IP chemotherapy after NACT + IDS?

Result of JGOG3016

- Questions the role of Day 8 IP Paclitaxel in GOG172 Trial.
 - Does Day 8 paclitaxel matter?
 - Does Day 8 IP paclitaxel matter?

GOG218 Results

- What is the role of bevacizumab in combination with IP chemotherapy?
 - There is a possibility that incorporation of antiangiogenetic agent enhance the effect of IP chemotherapy.