

## Drug-Induced Disaster due to Iressa

Masato Sekiguchi

1

## What is IRESSA

- Is an anticancer drug for non-small-cell lung cancer.
- Has a novel mechanism of action (inhibition of EGFR).  
→ “molecularly targeted drug”
- Has been extensively promoted as a “safe anticancer drug with few adverse reactions.”

## Approval of IRESSA

### Approved with exceptional speed

1.25.2002 Application for importation approval

7.5.2002 Approved (global first)

↑

4.2004 Transfer of approval operations to the Pharmaceuticals and Medical Devices Agency

## Phase II Approval [Does this reflect your intended meaning? Or do you mean “II. Approval Phases”?]

Guidelines for Methods of Clinical Evaluation for Anticancer Drugs (prior to 2005 revision)

Phase I Clinical Trials

Phase II Clinical Trials...Tumor-shrinkage effect (small-scale) → **Approval**

Phase III Clinical Trials...Survival benefit (large-scale)

**Post-approval**

## Approval Conditions for IRESSA

“Performance of a domestic **randomized comparative clinical trial having a sufficient sample size**, with the objective of further elucidating the efficacy and safety of this drug in the treatment of non-small cell lung cancer (unresectable or recurrent)”

## Occurrence of suffering due to adverse reactions

Starting immediately after approval, there were multiple cases of adverse reactions of serious interstitial pneumonia and acute lung injury.

7.5.2002 Approval

7.15 First reported fatality

10.15 Urgent Safety Information Report  
26 events 13 deaths

~~Targeted attack of only cancer cells~~

## Deaths reported due to adverse reactions

2002 180 deaths (July – December)  
 2003 202 deaths  
 2004 175 deaths  
**Subtotal 557 deaths**  
 2005 80 deaths  
 2006 51 deaths

**As of March 2010, 810 deaths had been reported.**

7

## Total number of treated patients is unknown

- 1.2005 AstraZeneca reported cumulatively approx. **86,800** patients treated Iressa as of Dec. 28, 2004.



- 3.2005 Revised to approx. **42,000** patients.

8

## Adverse reactions at the approval examination stage

### Overview (Interstitial pneumonia cases)

- No. of adverse reaction cases reported up to preparation of the examination report before the approval
  - 3 in domestic clinical trials **(3 in Japan)**
  - 4 in overseas adverse reaction reports **(4 overseas)**
- Overlooked cases of adverse reactions
  - 196 cases up to approval
  - 10 of those cases were typical lung damage **(10 typical cases)**
- Additionally reported cases of adverse reactions **(3 additional cases)**

## Overlooked adverse reactions (10 typical cases)

| Patient No. | Patient   | Adverse Reaction  | Severity         | Outcome    |
|-------------|-----------|---|------------------|------------|
| B3-54       | 51 y.o. F | Respiratory failure                                       | Fatal            | Fatal      |
| B3-63       | 55 y.o. M | Respiratory failure                                       | Life-threatening | Unresolved |
| B3-67       | 38 y.o. F | Pulmonary infiltration NOS                                | Life-threatening | Unknown    |
| B3-79       | 68 y.o. F | Respiratory failure                                       | Life-threatening | Recovered  |
| B3-115      | 68 y.o. F | Dyspnea NOS   | Fatal            | Fatal      |
| B3-132      | 54 y.o. M | Dyspnea NOS, pulmonary hemorrhage                         | Life-threatening | Unresolved |
| B3-140      | 63 y.o. M | Pulmonary infiltration NOS, respiratory failure           | Fatal            | Fatal      |
| B3-152      | 39 y.o. F | Pulmonary infiltration NOS, allergic pulmonary alveolitis | Life-threatening | Unresolved |
| B3-164      | 62 y.o. F | Respiratory failure, lactic acidosis                      | Fatal            | Fatal      |
| B3-172      | 73 y.o. F | Pulmonary infiltration NOS                                | Fatal            | Fatal      |



**Not classified as "Interstitial pneumonia"; thus overlooked.**

10

## Risk apparent from adverse reaction cases reported before the approval

- High mortality rate**
  - 4 overseas cases + 3 additional cases: 4 deaths **57%**
  - 10 overlooked typical cases: 5 deaths **50%**
  - 2 Japanese EAP cases: 1 death **50%**
- Risk trends for Japanese**
  - All cases in clinical trials were Japanese (3/3)
  - 3 domestic cases + 4 overseas cases + 3 additional cases: 5 Japanese cases (5/10)
  - All 5 Japanese cases were serious or fatal.

**These cases portended the rash of adverse reactions after marketing.**

11

## Handling of adverse reaction reports in the examination

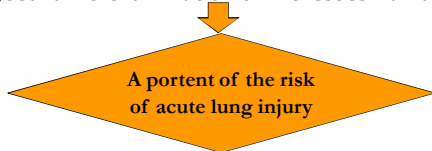
- Only the relevance was investigated, focusing on the 3 domestic cases.**
- Only the existence of reports of 4 overseas cases was noted.**
- Most cases were overlooked**



**In The Second Section of Drug Examination Committee the risk of Interstitial Pneumonia was not even explained.**

## Insufficient consideration of adverse events

- Adverse event-related deaths in clinical trials: 34/677 patients (5.0%)  
Only 2 (0.3%) of those were treated as deaths due to adverse reactions.
- Many cases of acute pulmonary damage due to IRESSA were overlooked.  
(Osaka: re-examination of witnesses Hama)



## Efficacy

14

## Phase III clinical trials

- INTACT 1
- INTACT 2
- ISEL
- SWOG0023
- V1532 ( Approval Conditions )
- INTEREST
- IPASS

15

## Phase III clinical trials

- INTACT 1, 2**  
Coadministration of IRESSA with existing anticancer drugs  
→The median survival time showed **no significant difference** between the IRESSA group and the placebo group.
- ISEL**  
The median survival time showed **no significant difference** between the IRESSA group and the placebo group.
- SWOG0023**  
Administration of gefitinib as maintenance therapy following chemoradiotherapy + docetaxel chemotherapy  
→The median survival time was **significantly inferior** in the IRESSA group (23 months) compared with the placebo group (35 months).

16

## V1532

- Second-line or third-line patients
- Comparison of survival times with IRESSA and docetaxel
- Domestic clinical trial carried out to satisfy the approval conditions**

**Noninferiority of gefitinib to docetaxel with regard to the overall survival time was not proven.**

**Failure to prove a survival benefit**

17

## Phase III clinical trials

- Repeated failure in placebo-controlled comparative studies
- Reduced survival time shown in SWOG0023
- Failure of the trial (V1532) conducted to satisfy the domestic approval conditions
- Multiple cases of suffering due to adverse reactions

Dr. Nagahiro Saijo, witness

**"Statistical utility of IRESSA has not been proven."**

18

## INTEREST

- Second-line or third-line patients
- Comparison of survival times with IRESSA and docetaxel
- Overseas clinical trial

Demonstration of noninferiority of gefitinib to docetaxel

- ? Failure of V1532 conducted in Japanese patients
- ? Docetaxel dosage larger than in V1532

19

## IPASS

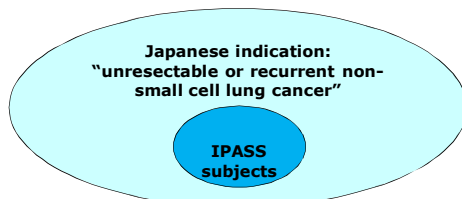
- Patients with adenocarcinoma and no or only a slight history of smoking
- Comparison of IRESSA with doublet chemotherapy using carboplatin/paclitaxel
- Primary assessment endpoint was the progression-free survival time

Demonstration of superiority in the IRESSA group over doublet chemotherapy using carboplatin/paclitaxel

20

## IPASS

The IPASS patient cohort does not cover the Japanese indication



In addition, the response rate in the EGFR mutation-negative group was **1.1%**.

21

## 欧米の状況

- 2003.5.5 FDA イレッサ承認
- 2004.12.17 ISEL 初回解析  
FDA 声明「回収するか、他に妥当な規制措置をとるかを決定する」
- 2005.1.4 アストラゼネカ  
**EUへの承認申請を自ら取り下げ**
- 2005.5.14 SWOG0023 中間解析
- 2005.6.17 FDA、**新規患者への投与を原則禁止**

22

## Handling of IRESSA in the West

- 5.5.2003 FDA approval
- 12.17.2004 Initial analysis of ISEL  
FDA statement: "A decision will be made for recall or some other appropriate regulatory measure."
- 1.4.2005 **AstraZeneca itself withdraws its approval application to the EU**
- 5.14.2005 Interim analysis of SWOG0023
- 6.17.2005 FDA  
**In principle, prohibition of administration to new patients**

23

## Handling of IRESSA in the West

- 7.1.2009 Distribution approval granted in the EU on basis of IPASS & INTEREST  
However, restricted to "adult patients with EGFR mutations and locally-advanced or metastasized non-small cell lung cancer"

Approval cannot be acquired in the case of an indication that is not focused on patients who have EGFR mutations (= the indication granted in Japan)

24

## Handling of IRESSA in Japan

- 1.25.2002 Approval application submitted to the Ministry of Health Labour and Welfare
- 7.5.2002 Approval ←without waiting for the INTACT results
- 8.19.2002 INTACT results reported
- 10.15.2002 Urgent Safety Information
- 12.25.2002 First Meeting to Discuss Gefitinib Safety Issues
- 12.26.2002 Revision of package insert→ Warning statement

25

## Handling of IRESSA in Japan

- 12.17.2004 Initial analysis of ISEL
- 1.2005 - Gefitinib Committee Meeting convened
- Continued use of the drug was permitted under the condition that the package insert include a statement that, at the time of use, reference should be made to the Japan Clinical Guidelines for the Management of Lung Cancer. No changes were made in the approval content.
- 5.14.2005 Interim analysis of SWOG0023
- 7.25.2005 Revision of Clinical Guidelines for the Management of Lung Cancer

26

## Handling of IRESSA in Japan

- 2.1.2007 Initial analysis of V1532 announced  
Safety Committee for Food and Drugs  
Safety Committee meeting held

27

## V1532

- Second-line or third-line patients
- Comparison of survival times with IRESSA and docetaxel
- **Domestic clinical trial carried out to satisfy the approval conditions**



**Noninferiority of gefitinib to docetaxel with regard to the overall survival time was not proven.**



**Failure to prove a survival benefit**

28

## Handling of IRESSA in Japan

- 2.1.2007 Initial analysis of V1532 announced  
Safety Committee for Food and Drugs  
Safety Committee meeting held

"It was concluded that, in general, **there is no basis for actively selecting gefitinib over docetaxel** for treatment of patients with unresectable or recurrent non-small cell lung cancer who have already been treated with one or two chemotherapy regimens."

"In consideration of the fact that the status of manifestation of adverse reactions is as stated in the most recent package insert, etc.,...**it is appropriate to continue to apply the current safety measures.**"

29

## Handling of IRESSA in Japan

What is meant by approval "conditions"?

- By when must they be satisfied?  
→ In the 4 years and 7 months from approval until initial analysis
- What is the effect if the conditions are not met?  
→ Even if there is failure to prove a survival benefit, no changes are made in the approved items.

30

# Promotional advertising

## In the clinical setting and status of promotional advertising Characteristics of the defendant's promotional advertising

### Content

- Emphasis on efficacy
- Emphasize that there are few adverse reactions
- No mention of interstitial pneumonia

### Methods

- Directed at all concerned parties (doctors, patients, mass media)
- Use any and all media
- Pretence of providing scientific information (use specialists)
- Predating approval

## 医師を対象とした宣伝



## Medical Tribune Nov. 22, 2001

Interview with Dr. Nagahiro Saijo, National Cancer Center

- "If a survival benefit is found, then since ZD1839 is a drug that shows little toxicity, I think that it will probably be a very useful drug for the treatment of non-small cell lung cancer."
- "Since the toxicity of molecularly targeted drugs is not very strong, it can be surmised that reported patient deaths are probably due to administration of the drugs to patients in whom administration is not indicated ZD1839 also causes few adverse reactions, and for that reason I worry that it might also be used in the same manner."

## Medical Tribune Oct. 25, 2001

Interview with Dr. Kazuhiko Nakagawa and others  
Fourth Department of Internal Medicine, Kinki University  
Faculty of Medicine

"With regard to adverse reactions, it is said that skin rash is very commonly seen. Are there any other adverse reactions observed that require caution?"

"Although their incidences are not very high, diarrhea and hepatic dysfunction can be raised as other adverse reactions. However, those reactions show very rapid improvement if drug administration is discontinued for a certain time, and for that reason I don't think they present much of a clinical problem."

\* There was absolutely no mention of interstitial pneumonia.

## Informed consent document for the patients

These symptoms recovered when IRESSA was discontinued or treatment using another drug, etc., was administered.

Cold-like symptoms due to pulmonary inflammation: Interstitial pneumonia (dyspnea) has been reported.

| 副作用名  | 発症率 (%) | 特徴             | 対応                          |
|-------|---------|----------------|-----------------------------|
| 皮膚発疹  | 10.0    | 発疹、発赤、丘疹、水疱、痒み | 軽症の場合は経過観察、重症の場合は抗アレルギー薬の投与 |
| 嘔吐    | 10.0    | 嘔吐、嘔吐物に胆汁を伴う   | 嘔吐が持続する場合は、吐き止めの投与          |
| 下痢    | 10.0    | 下痢、軟便、腹痛       | 軽症の場合は経過観察、重症の場合は抗分泌薬の投与    |
| 肝機能異常 | 10.0    | AST、ALTの上昇     | 軽症の場合は経過観察、重症の場合は投与の中止      |
| 呼吸器系  | 10.0    | 呼吸困難、発熱、咳嗽     | 呼吸困難が持続する場合は、呼吸器科の受診        |
| その他   | 10.0    | 頭痛、倦怠感、発熱      | 軽症の場合は経過観察、重症の場合は投与の中止      |

## Press release

"The important point is that these results indicate success in not causing the severe adverse reactions that are commonly seen in patients being treated for lung cancer. The main adverse reactions associated with administration of ZD1839 are mild to moderate skin reactions, such as rash, dry skin and itchiness, and diarrhea. Serious adverse reactions are rare, and are usually associated with progression of the disease."

\* There is no mention of interstitial pneumonia.

37

## Intense media coverage predating approval

- 11.2.2001 "Targeted attack of cancer cells"  
With regard to adverse reactions, there have been some cases of rash and diarrhea, but compared with conventional drugs there is great improvement. (Asahi Shinbun newspaper)
- 5.25.2002 "Novel lung cancer drug, gefitinib, to be approved with exceptional speed."  
A drug that is said to act directly on receptors involved in cancer proliferation, to have no great effect on normal cells, and to cause few adverse reactions. (Tokyo Shimbun newspaper)
- 6.3.2002 "Hey, cancer! Don't overrate yourself!!" "Astounded." "Amazing." Comments made by specialists in regard to a novel cancer drug that was reported at a meeting of the American Society of Clinical Oncology last month. (Asahi Shinbun newspaper)

38

## Intense media coverage predating approval

- A search service was used to conduct a comprehensive search for past articles in the national newspapers (Asahi, Yomiuri, Mainichi, Sankei), local newspapers, specialist journals, and business magazines.
- 85 articles were found regarding IRESSA (gefitinib, ZD1839) written prior to its approval (before July 5, 2002).
- However, not even 1 mentioned interstitial pneumonia.  
This is because the defendant did not provide information regarding interstitial pneumonia.

39

## The fervent wish of a patient

Statement from Mr. Akio Chikazawa, a plaintiff:

"In mid-July of 2002, I found an Internet site that discussed IRESSA. Expressions like 'A novel drug that is like a dream,' 'An innovative lung cancer treatment that causes few adverse reactions and can be easily taken in your own home,' etc., grabbed my attention."

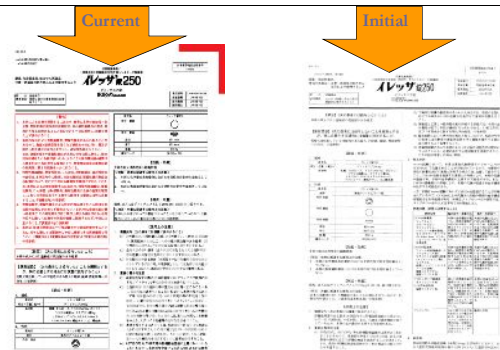
"...There were numerous quotes from many oncology specialists in articles in various magazines and newspapers, all offering only praise of IRESSA, such as 'Its response rate is several fold higher than that for any previous anticancer drugs,' etc., and no matter where I looked I found no troubling information. If such a fantastic anticancer drug were to become available, it would obviously be my wish to find a way to give it to my daughter."

40

## Instructions and Warnings

41

## Comparison of IRESSA package inserts



42

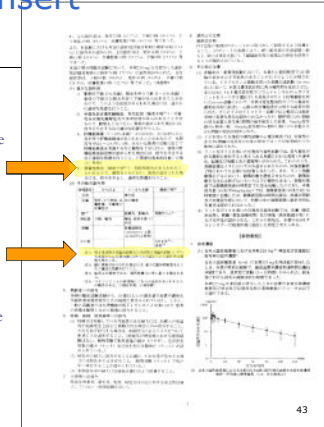
## Initial package insert (reverse side)

### Interstitial pneumonia (incidence unknown):

Interstitial pneumonia may manifest, and for that reason the patient should be carefully monitored. In the case of any abnormality, administration of the drug should be discontinued and appropriate measures should be taken.

### Note 1)

Adverse reactions that occurred only in studies other than the Phase II International Collaborative Trial and the U.S.A. Phase II Clinical Trial (each of which administered the drug in a 250 mg/day group) were classified as "incidence unknown".



43

## Problems with the initial package insert

Content

Statement columns

There is absolutely no warning that interstitial pneumonia can be fatal.

No statement in the Warnings column.

44

- 【警告】
- 本剤による治療を開始するにあたり、患者に本剤の有効性・安全性、息切れ等の副作用の初期症状、非小細胞肺癌の治療法、致命的となる症例があること等について十分に説明し、同意を得たこと。  
"fatal cases"
  - 本剤の投与により急性肺障害、間質性肺炎があらわれることがあるので、胸部X線検査等を行うなど観察を十分にを行い、異常が認められた場合には投与を中止し、適切な処置を行うこと。  
また、急性肺障害や間質性肺炎が本剤の投与初期に発生し、致命的な転帰をたどる例が多いため、少ないが、  
"occurrence of fatal results"
  - 特発性肺線維症、間質性肺炎、じん肺症、放射線肺炎、薬剤性肺炎の合併は、本剤投与中に発現した急性肺障害、間質性肺炎発症後の転帰において、死亡につながる重要な危険因子であるため、本剤による治療を開始するにあたり、特発性肺線維症、  
"will be fatal"
  - 急性肺障害、間質性肺炎による致命的な転帰をたどる例、  
"fatal results"
  - 本剤は、肺癌化学療法に十分な経験をもつ医師が使用するとともに、投与に際しては緊急時に十分に措置できる医療機関で行うこと。  
"death rate"

## Current statements in the Warnings column

- Manifestation of "life-threatening" interstitial pneumonia
- Necessary testing for initial symptoms and early diagnosis of interstitial pneumonia
- Restrictions on the medical care staff and medical facilities able to use the drug
- Hospitalization for a certain time period or equivalent management is necessary
- Idiopathic pulmonary fibrosis, etc., increase the risk of death
- Sufficient explanation regarding efficacy and safety, and informed consent
- Coadministration with other anticancer agents and radiotherapy is prohibited
- Administration to patients meeting clinical trial exclusion criteria is prohibited

46

## Conflict of Interest

### Defense witness in the Eastern Japan Lawsuit Nagahiro Saijo (National Cancer Center Hospital East, Vice Chairman)

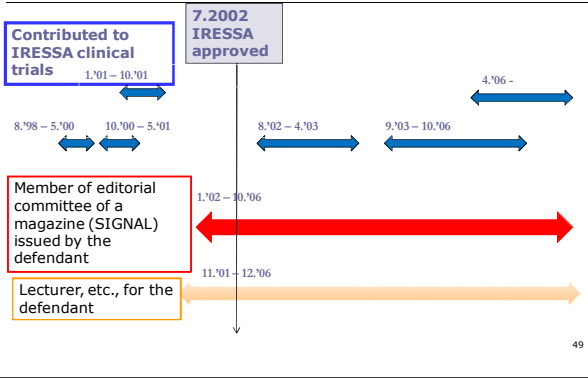
- Clinical trials
  - V15-11 Trial 8.1998 – 5.2000 Efficacy and Safety Assessment Committee
  - V15-21 Trial 10.2000 – 5.2001 Efficacy and Safety Assessment Committee
  - V35-21 Trial 1.2001 – 10.2001 Efficacy and Safety Assessment Committee
  - V15-31 Trial 8.2002 – 4.2003 Efficacy and Safety Assessment Committee
  - V15-32 Trial 9.2003 – 10.2006 Post-production and distribution Clinical Trial Coordination Committee
  - IPASS Trial 4.2006 - Post-production and distribution Clinical Trial Coordination Committee
- Private
  - Acted as an interlocutor for articles provided by AstraZeneca
  - Member of editorial committee of a magazine (SIGNAL) issued by AstraZeneca
  - Attended numerous lectures sponsored by AstraZeneca, and received lecture fees, etc.

48

47



Defense witness in the Eastern Japan Lawsuit  
**Nagahiro Saijo (National Cancer Center  
 Hospital East, Vice Chairman)**



Defense witness in the Western Japan Lawsuit  
**Masahiro Fukuoka (Kinki University Faculty of  
 Medicine, Professor)**

- From the development stage
  - Attended IRESSA-related seminars (guidance fee of 100,000 Yen per session)
- Clinical trials
  - Phase I clinical trial: Coordinating Investigator (contract research fee: in excess of 10 million Yen)
  - Phase II clinical trial: Coordinating Investigator (contract research fee: in excess of 10 million Yen)
- Donations to NPO, West Japan Thoracic Oncology Group (from Dec. 2000, Director; from May 2004, Chairman)
  - Donation of approx. 20 million Yen each year

西日本がん研究機構  
 West Japan Oncology Group

Topページ  
 理事長挨拶  
 総会・サボ→秋賀  
 入会案内  
 一般向け啓蒙書  
 治具会情報誌  
 講演会・セミナー案内  
 講演会ビデオDVD  
 WJOG研究発表要録一覧  
 WJOG会報誌請求依頼  
 会員用サイト  
 国際シンポジウム  
 リンク集  
 お問い合わせ

「がんは怖い」との認識を日本がん研究機構(WJOG)の全面支援により作成されています。

Copyright © 2007 エルベートと西日本がん研究機構委員会. All Rights Reserved. Medical support by 西JOC Presented by AialaZoreca

「エルベート」が、がんを予防し、治療し、再発・転移・増進を抑制し、生活の質を向上させることを目指しています。

「エルベート」が、がんを予防し、治療し、再発・転移・増進を抑制し、生活の質を向上させることを目指しています。

「エルベート」が、がんを予防し、治療し、再発・転移・増進を抑制し、生活の質を向上させることを目指しています。

「エルベート」の認識を日本がん研究機構(WJOG)の全面支援により作成されています。

Copyright © 2007 エルベートと西日本がん研究機構委員会. All Rights Reserved. Medical support by 西JOC Presented by AialaZoreca

西日本がん研究機構  
 West Japan Oncology Group

Topページ  
 理事長挨拶  
 総会・サボ→秋賀  
 入会案内  
 一般向け啓蒙書  
 治具会情報誌  
 講演会・セミナー案内  
 講演会ビデオDVD  
 WJOG研究発表要録一覧  
 WJOG会報誌請求依頼  
 会員用サイト  
 国際シンポジウム  
 リンク集  
 お問い合わせ

「がんは怖い」との認識を日本がん研究機構(WJOG)の全面支援により作成されています。

Copyright © 2007 エルベートと西日本がん研究機構委員会. All Rights Reserved. Medical support by 西JOC Presented by AialaZoreca

**西日本がん研究機構**  
West Japan Oncology Group

平成21年 市民公開講座  
 平成21年10月14日(日) ⇒ 朝日がんフォーラム、大阪市、評議会  
 平成21年10月3日(土) ⇒ 大阪市、東城大学ホール(松本市民会館)  
 平成21年1月19日(日) ⇒ 神戸市、神戸新聞社松方ホール

平成20年 市民公開講座  
 平成20年10月19日(日) ⇒ 朝日がんフォーラム、大阪市  
 平成20年10月12日(日) ⇒ 鎌倉市、じやうちくプラザ  
 平成20年9月7日(日) ⇒ 富山市、富山国際会議場  
 平成20年3月2日(日) ⇒ 広島市、県民文化センター

平成19年 市民公開講座  
 平成19年10月13日(土) ⇒ 朝日がんフォーラム、大阪市、評議会  
 平成19年9月29日(土) ⇒ 松本市、松本市民会館  
 平成19年9月23日(日) ⇒ 名古屋市、名古屋国際会議場

平成18年以前 市民公開講座  
 平成18年9月3日(日) ⇒ 北九州国際会議場

55

**西日本がん研究機構**  
West Japan Oncology Group

第9回朝日がんフォーラム  
 がんに向き合うために～患者と医療と家族とのコミュニケーション～

参加費無料、定員100名  
 開催日 2009/10/4(日) 13:30-16:00  
 会場 朝日会館  
 主催 NFO法人西日本がん研究機構(WJOG)、朝日新聞社  
 協賛 アストロザネカ株式会社  
 後援 厚生労働省、大阪府医師会、社団法人大阪府看護協会(予定)

ごあいさつ  
 がんは国民の死因第1位です。昨年は33万人ががんで亡くなりました。なかでも、肺がんが急増しています。我が国では、昨年は年間30万人以上の方が肺がんにかかりました。数年前に10万人になると予想されています。肺がんは21世紀の国民病といっても間違いはありません。

そのような背景のなか、3年前に「がん対策基本法」という法律が制定されました。この法律の大きな特徴は、政治家と医学専門家に加えて、がんの患者さんが法律の立案にかかわり、非がん・医療・患者役者、社会が一つに繋がってがん対策に取り組もうという精神で作られた点です。その中で打ち立てられていることは、「研究」と「正確な統計」をもとに、「発症」や「診断」などの予防対策に努め、同時に現代の医療で立ち遅れている「がん薬物療法」や「放射線治療」の専門医を育て、

56

## Handling of IRESSA in Japan

12.17.2004 Initial analysis of ISEL  
 1.2005 - Gefitinib Committee Meeting convened  
 Continued use of the drug was permitted under the condition that the package insert include a statement that, at the time of use, reference should be made to the Japan Clinical Guidelines for the Management of Lung Cancer. No changes were made in the approval content.  
 5.14.2005 Interim analysis of SWOG0023  
 7.25.2005 Revision of Clinical Guidelines for the Management of Lung Cancer

57

## Conflict of Interest

### Members of the Guideline Planning Committee

|              |         |       |                 |
|--------------|---------|-------|-----------------|
| ① N.Saijo    | witness |       | clinical trials |
| ② M.Fukuoka  | witness | WJTOG | clinical trials |
| ③ S.Negoro   |         | WJTOG | clinical trials |
| ④ S.Kudo     | witness |       | clinical trials |
| ⑤ T.Tamura   |         |       | clinical trials |
| ⑥ H.Tada     |         | WJTOG | clinical trials |
| ⑦ T.Mitutomi | witness | WJTOG | clinical trials |
| ⑧ H.Kato     |         | WJTOG |                 |
| ⑨ N.Yamamoto |         | WJTOG |                 |
| ⑩ K.Hayakawa |         |       |                 |

58

## Lawsuits regarding drug-induced suffering due to IRESSA

### Western Japan Lawsuit

- Filed on July 15, 2004 (Osaka District Court)
- Plaintiffs...3 families, 1 survival victim
- To be concluded on July 30, 2010**

### Eastern Japan Lawsuit

- Filed on November 25, 2004 (Tokyo District Court)
- Plaintiffs...3 families
- To be concluded on August 25, 2010**

59

## Lawsuits regarding drug-induced disaster due to IRESSA

- The Japanese government and AstraZeneca should recognize their responsibility for the drug-induced suffering due to IRESSA and **issue an apology** to the victims and their families.
- The Japanese government and AstraZeneca should **pay compensation** to the victims and their families for the drug-induced suffering due to IRESSA.
- The re-examination to be started from July of this year should **review the contents of the approval** of IRESSA.
- A **relief system for deaths due to adverse reactions to anticancer drugs** should be established, such as expanding the Relief System for Sufferers from Adverse Drug Reactions.
- Verify** the drug-induced suffering due to IRESSA and take initiatives to **prevent recurrence** of drug-induced suffering.

60