

Food and Drug Administration Rockville, MD 20857

TRANSMITTED BY FACSIMILE

Christine Duffy Smith
Promotional Regulatory Affairs, Director
AstraZeneca Pharmaceuticals LP
1800 Concord Pike
P.O. Box 15437
Wilmington, DE 19850-5437

RE: IND # ZD1839
ZD0473
ZD1694 (tomudex)
ZD9238 (faslodex)
NDA# 20541 Arimidex (anastrozole) tablets
MACMIS ID# 10135

Dear Ms. Duffy Smith:

This letter notifies AstraZeneca Pharmaceuticals LP (AstraZeneca) that the Division of Drug Marketing, Advertising, and Communications (DDMAC) has identified promotional activities that are in violation of the Federal Food, Drug, and Cosmetic Act (Act) and its implementing regulations. Specifically, AstraZeneca is promoting Arimidex for an unapproved use and promoting its investigational new drugs, ZD1839, ZD0473, ZD1694 (tomudex), and ZD9238 (faslodex), as safe or effective. Our specific objections follow:

Promotion of Unapproved Uses

Arimidex is indicated for the first-line treatment of postmenopausal women with hormone receptor positive or hormone receptor unknown locally advanced or metastatic breast cancer and for the treatment of advanced breast cancer in postmenopausal women with disease progression following tamoxifen therapy. AstraZeneca distributed an abstract entitled *The Combined Use of Goserelin and Anastrozole as Second Line Endocrine Therapy in Premenopausal Women with Advanced Breast Cancer - a Study of its Clinical and Endocrine Effects* at their commercial exhibit at the 37th American Society of Clinical Oncology (ASCO) Annual Meeting held in San Francisco, California in May 2001. The abstract states "This study shows that Z [Zoladex (goserelin)] + A [Arimidex] induces therapeutic remission in a reasonable proportion of premenopausal women with advanced breast cancer who have progressed on Z+T [tamoxifen]. The clinical therapeutic effects are associated with demonstrable endocrine changes including a dramatic reduction of E2 levels seen in postmenopausal women receiving A alone."

The disseminated materials are violative and show that AstraZeneca intends for Arimidex to be used for an unapproved new use. Further, the small statement in the lower right corner of

Ms. Christine Duffy Smith	
AstraZeneca Pharmaceuticals LP	-
AstraZeneca Pharmaceuticals LP IND	
NDA 20-541	Ξ.

the disseminated abstract ("For Medical Information Only–Not approved in the US") does not correct the violative promotion of an unapproved use for Arimidex in the commercial exhibit hall.

Promotion of Investigational Drugs

The AstraZeneca booth in the commercial exhibit hall of the May 2001, ASCO Annual Meeting includes convention panels describing the safety or effectiveness of ZD1839 and ZD1694 (tomudex), that are investigational drugs. Moreover, AstraZeneca disseminated promotional materials in two plastic containers, as well as copies of abstracts, that were available throughout the commercial exhibit area. One plastic container is labeled "ZD1839 ('Iressa') Medical Information Pack" and contained eighteen color copies of poster presentations and two slide kit handouts that made conclusions about the safety or efficacy of this investigational drug. The other container is labeled "A new generation platinum agent Medical Information Pack" and also contained numerous abstracts and color copies of poster presentations that made conclusions about the safety or efficacy of the investigational drug ZD0473. In addition, other loose abstracts, disseminated at the commercial booth, made conclusions about the safety or efficacy of the investigational drug ZD9238 (faslodex).

These convention panels and promotional materials include conclusionary statements such as:

ZD1839

"ZD1839 in combination with standard cytotoxics was well-tolerated and showed enhanced tumor activity compared with treatment with either ZD1839 or cytotoxics alone."

"ZD1839 in combination with standard cytotoxics was associated with a significant increase in survival in vivo, particularly in combination with paclitaxel."

"Orally administered ZD1839 is active against central nervous system tumors with limited or no systemic toxicity."

"ZD1839 oral administration was well tolerated in patients with solid malignant tumors."

ZD1694 (tomudex)

"Specific TS inhibitor active in a range of malignancies"

"Single agent activity in phase 2 studies in colorectal, nscl, pancreatic, breast, and ovarian cancers"

"Activity seen in phase 2 chemoradiation studies of raltitrexed [tomudex] alone and in combination with oxaliplatin as preoperative therapy for rectal cancer"

"Activity seen in the first and second-line therapy of advanced colorectal cancer in combination with oxaliplatin"

"Manageable toxicity profile"

Ms. Christine Duffy Smith	
AstraZeneca Pharmaceuticals LP	_
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ZD0473

"There was evidence of antitumor activity in ovarian cancer patients" "ZD0473 has a predictable and manageable toxicity profile"

ZD9238 (faslodex)

"In conclusion, FAS [faslodex] was at least as effective as ADX [Arimidex], with a non-significant numerical increase OR observed."

Section 21 CFR 312.7 states, among other things, that an investigational new drug may not be promoted as being safe or effective for uses under investigation. Therefore, the above claims are in violation of the Act.

Requested Action

AstraZeneca should immediately cease the distribution of these and other similar promotional materials for the above drugs that contain the same or similar claims or presentations. AstraZeneca should submit a written response to DDMAC on or before July 23, 2001, describing its intent and plans to comply with the above. In its letter to DDMAC, AstraZeneca should include the date on which this and other similarly violative materials were discontinued.

AstraZeneca should direct its response to me by facsimile at (301) 594-6771 or by written communication at the Division of Drug Marketing, Advertising, and Communications, HFD-42, Rm. 17B-20, 5600 Fishers Lane, Rockville, MD 20857. In all future correspondence regarding this matter, please refer to MACMIS ID # 10135 in addition to the NDA number. DDMAC reminds AstraZeneca that only written communications are considered official.

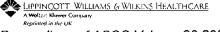
Sincerely.

{See appended electronic signature page}

Joseph A. Grillo, Pharm.D. Regulatory Review Officer Division of Drug Marketing, Advertising, and Communications This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Joseph Grillo 7/9/01 08:43:18 AM



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The Combined Use of Goserelin and Anastrozole as Second Line Endocrine Therapy in Premenopausal Women with Advanced Breast Cancer - a Study of its Clinical and Endocrine Effects. K. Cheung, D. Forward, L. Jackson, J. Robertson: Professorial Unit of Surgery, Nottingham City Hospital, Nottingham, UK

Fifteen premenopausal women with either metastatic (N = 12) or locally advanced primary breast cancer (N = 3) were treated with a combination of a gonadotropin releasing hormone (GnRH) agonist, goserelin, (Zoladex (Z)) and a third-generation selective aromatase inhibitor, anastrozole (Arimidex (A)). All had previously been treated with Z and tamoxifen (T). Clinical Effects: Eleven women (73%) achieved objective response/durable stable disease (OR/SD) at 6 months with a median duration of remission of 16+ months (range: 6 - 41 months). Two remain in OR/SD but have yet to achieve 6 months of therapy. Two progressed before 6 months. Endocrine Effects: The introduction of Z+T resulted in an 89% reduction in serum estradiol (E2) levels compared to pre-treatment (p < 0.05). Substitution of T by A on progression resulted in a further 76% fall (p <0.05) associated with clinical regression %. FSH levels were initially suppressed with Z+T

•	Pre-Z+T	6 months on Z+T	3 months on Z+A	6 months on Z+A
Mean E2	224	24	6	5
(pmol/L)	224			

falling from pre-Z+T levels of 10 IU/L (mean) to 1.6 IU/L (p <0.05). Substitution of T by A led to a partial loss of this suppression with levels rising towards pre-treatment values (5.4 IU/L). LH levels were suppressed as would be expected by constant administration of a GnRH agonist. A non-significant fall from 0.34 to 0.20 pmol/L was seen when T was substituted by A. Testosterone, DHES and androstenedione, precursors in the estrogen synthesis pathway, showed small falls during the course of treatment. This study shows that Z+A induces therapeutic remission in a reasonable proportion of premenopausal women with advanced breast cancer who have progressed on Z+T. The clinical therapeutic effects are associated with demonstrable endocrine changes including a dramatic reduction of E2 levels seen in postmenopausal women receiving A alone.

ZD1839 ('Iressa')

MEDICAL INFORMATION PACK

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AB Heimberger, GE Archer, RE McLendon, D Price, AH Freidman, DB Bigner, JH Sampson

Duke University Medical Contor, Durham, NC27710, USA

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INTRODUCTION

- receptor-tyrosine idnase inhibitor) which blocks selective EGFR-TKI (epidarmal growth factor proliferation and survival of cancer cells, and other host-dependent processes promoting signal transduction pathways implicated in ZD1839 ('Iressa') is an orafly active, cancer growth
- antitumor activity in a broad range of established be well tolerated and has demonstrated notable In animal studies, ZD1839 has been shown to human tumor xenografts 1
- clinical efficacy, particularly in NSCLC, and to ZD1839 has been shown to have promising be well tolerated in Phase | studies, 7.3
- The purpose of this study was to examine the in wwo efficacy of ZD1839 against intracranial tumors sequestered by the blood-brain barrier

SOCHIEN

in vitro growth inhibition assays

Growth inhibition was assessed using 5 x 104 A431 or NRGM cells at logarithmic growth, traeted with a final concentration of 0, 0.5, 1, 5, 10 or 20 µM 2000

In vivo growth inhibition assays

 Xenografis utilized were A431 (which over-expresse the wild-type EGFR), and NRBM (which expresses the mutant EGFRvIII lacking a ligand binding domain, but containing a constitutively activated tyrosine kinase).

Subcutaneous fumore

- A431 cetts suspended in 100 µL saling, into the These were initiated by implantation of 1 x 10⁸ right flank of made mice.
- 100 mg/kg/day for a total of 13 days or a vehicle necrotic. All treatments were administered once a palpable volume of 0.4 cm³), with ZD1839 at Mice were treated daily, starting 10 days after tumor implantation (when the tumors achieve control at which time control tumors became daily by onal gavege

Intracraniai fumora

Cells were resuspended in 2.5% methyloellulose and the lethal turnorigenic dose of 1 x 10° A431 cells were injected intracranially into nude mice.

Insensi is a trade mank of the AshitZeneca group of companies

of a total of 15 weekday doses, over 21 days, with Treatment began 3 days after implantation (when tumors were histologically evident) and consisted ZD1839 (50 mg/kg/day or 100 mg/kg/day) or the vehicle control. All treatments were administered orce daily by oral gavage

Assessment of toxicity and efficacy in senograff

modele

- of the brain and systemic organs in nude mide. Toxicity was monitored by daily weights, daily hematoxylin and eosin histologic examination neurologic examinations, and post-mortem
- Subcutaneous fumors were measured by volume Survival of mice with intracranial tumors was

RESULTS

in vitro growth inhibition

Dose-dependent growth inhibition was observed after incubation with ZD1839 in both A431 and NR6M cell lines. The IC₅₀ values for A431 and NR6M call lines were 3.2 µM and 5.5 µM,

in vivo growth inhibition

respectively (Figure 1).

Subcutaneous tumor nesponse

- of A431 expressing the wild-type EGFR, although in ZD1839 markedly suppressed subculancous growth no animal was there total elimination of the furnor (Figure 2).
- Upon withdrawal of ZD1839, all animals eventually had regrowth of subculaneous lumors.
- No growth suppression was observed in mice with

intracranisi tumor reaponse

- 50 mg/tg/day resulted in significantly greater median Trentment of mice with A431 tumors with ZD1639 #1 survive! compared with mice receiving the vehicle control (34 vs 16 days; p=0.009).
- Treatment of mice with ZD1839 at 100 mol/cy/day compared with mice receiving the vehicle control resulted in significantly greater median survival (37 vs 18 days; p<0.001) [Figure 3].
- mice treated with 201839 100 mg/kg/day compared with those treated with 50 mg/kg/day (p=0.022). Treatment of mice with NR6M tumors with

The medien survival was significantly greater in the

ZD1839 100 mg/kg/day resulted in a median surviva (p=0.407) different from that of mice receiving the of 10 days which was not statistically significantly vohicle control (median survival 9 days).

Figure 1. In vitro growth inhibition 8 8 2 ₽ 8 8 ₽ 3

Figure 2. Oral administration of ZD1839 is efficacious against subcutaneous A431

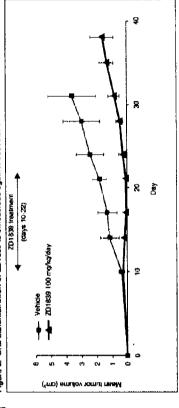
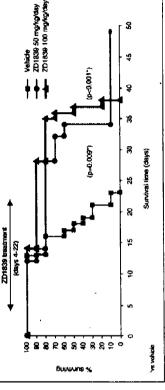


Figure 3. Oral administration of 2D1839 is efficacious egainst intracranial tumors expressing the wild-type EGFR



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treated with either dose of ZD1839 (50 mg/kg/day tor any treatment group. Histologic examination or 100 mg/kg/day) when compared with vehicle. was seen during the 28-day observation period of the systemic organs and brain did not reveal No weight loss >10% nor any neurologic deficit any significant differences among nude mice

CONCERSIONS

of both CCFR expressing and muland ZD1839 whibits the in vibo growth EGFRylll-xpressing cell lines.

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(Mit) holistration concentration (ILM)

- against central nervous system Runois Onally administered 2D1839 is active. with limited or no systemic toxicity.
- exposes on orienzapiess line FGFB, limited in the restral nervous system that to limited percentation of the BBB by standard This is itightly significant stoce many of the systemic cencers such as breast and non-stead lung cercinoma, both of which systemic chemofica apeutics.
- sufficient to atlay 201039, a small molecule, Haceberr, malignal disease and metastrans 😂 It is possible that intracranial unpfantation to epiter caused nervous system lesions. ney rissupt the 668, allowing ZD1839 deacy-found the BBB, which may be are offers a companied by marked access to this privileged site.
- No systemic or detricting leavietty tras associated with heating vilot made mise
- There are not the very time or ally administered chu notra rapautics curreatly exallabbe tast have atrona Phase III efficacy for the expression of the EGFR and mutant EGFR. trestonant of mat great gliomas, with their poor positios is and universal ower.
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References

- 2 Km M, et al. Cm Cancer Res 1909 545kgpl) 37493-37505, abr 99 1. Moodburn, JR, et al. Proc. Arr. Assoc Carson Men. 1967, 38. A4231.
 - 3 Brisishar, J. et al. Olin Cemer Res. 1889, 5(Supply, 3736S also 29

F Ciardiello, R Caputo, R Biurco, V Damiano, GPomutico, S De Placido, AR Bianco, G Tortora Division of Medical Oncology, University of Naples Federico II, Naples, Italy

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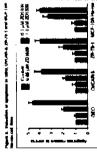
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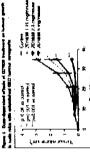
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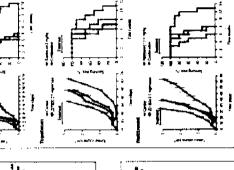
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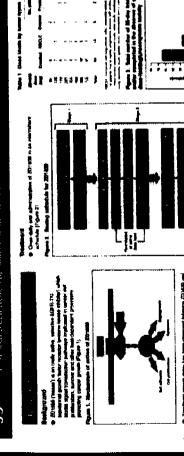
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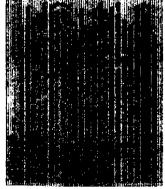
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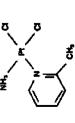


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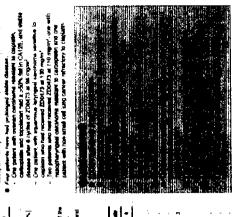
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Howell A, Robertson JFR, Albano J Quaresma, et al. COMPARISON OF EFFICACY AND TOLERABILITY OF FASLODEXTM (ICI 182,780) WITH ARIMIDEXTM (ANASTROZOLE) IN POST-MENOPAUSAL (PM) WOMEN WITH ADVANCED BREAST CANCER (ABC) - PRELIMINARY RESULTS.

Abstract Presented at: San Antonio Breast Cancer Symposium, December 2000

COMPARISON OF EFFICACY AND TOLERABILITY OF FASLODEXTM (ICI 182,780) WITH ARIMIDEXTM (ANASTROZOLE) IN POST-MENOPAUSAL (PM) WOMEN WITH ADVANCED BREAST CANCER (ABC) -PRELIMINARY RESULTS. ¹A Howell, ²JFR Robertson, ³J Quaresma Albano, ⁴A Aschermannova, ⁵L Mauriac, ⁶U Kleeberg, ⁷I Vergote, ⁸B Erikstein, ⁹A Webster, ⁹C Morris. Christie Hospital, UK; Nottingham, UK; Coimbra, Portugal; Nova Ves Plod Plesi, Czech Republic; ⁵Bordeaux, France; ⁶Hamburg, Germany; ⁷Leuven, Belguim; 8Oslo, Norway; 9AstraZeneca UK. 'Faslodex' (ICI 182,780) (FAS) is a novel, estrogen receptor downregulator. We report here on a phase III clinical trial [0020], which compared FAS 250mg intramuscular (i.m.) injection once monthly and 'Arimidex' (anastrozole) (ADX) 1mg od in PM women with ABC who had progressed or recurred on prior endocrine treatment for early or advanced breast cancer. An open, randomized, multi-center, parallel-group, trial was conducted to compare the efficacy and tolerability of FAS with ADX. The primary endpoint was time to progression (TTP). Secondary endpoints included objective response (OR) rates, duration of response (DOR) and tolerability. Patients were randomised to either FAS 250mg (1 x 5ml) (n=222) i.m. once monthly or ADX 1mg (n=229) orally od. Patients were recruited between June 1997 and September 1999 and followed for a median of 305 days. At the time of analysis approximately 83% of patients in each treatment arm had progressed. Median TTP was 167 days and 156 days for FAS and ADX respectively (Hazard ratio 0.97; Confidence Limits 0.79,1.28; p = 0.78). Objective response (OR, CR+PR) rates showed a non-significant numerical advantage for FAS over ADX, OR rates being 20.7% and 15.7% for FAS and ADX respectively (Odds ratio 1.38; Confidence Limits 0.84,2.29; p= 0.20), with the odds of attaining OR being 38% higher for FAS treated patients. Clinical benefit rates (CR+PR+SD≥24 weeks) were 44.5% and 45.0% for FAS and ADX respectively. Median duration of response was 434 days for FAS and 425 days for ADX. Both treatments were well tolerated with 3.2% of FAS patients and 2.2% of ADX patients withdrawn due to adverse events. For FAS and ADX, side effects included: hot flushes, 18.6% and 17%; gastrointestinal disturbances, 40.0% and 34.3%; weight gain 0.5% and 1.7%; vaginitis 0.5% and 0.9%. In conclusion, FAS was at least as effective as ADX, with a non-significant numerical increase in OR observed.

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