DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. 97D-0299]

International Conference on Harmonisation: Guidance on Ethnic Factors in the Acceptability of Foreign Clinical Data; Availability

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice.

SUMMARY: The Food and Drug Administration (FDA) is publishing a guidance entitled "E5 Ethnic Factors in the Acceptability of Foreign Clinical Data." The guidance was prepared under the auspices of the International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH). The guidance recommends regulatory and development strategies to permit clinical data collected in one region to be used for the support of drug and biologic registrations in another region while allowing for the influence of ethnic factors. DATES: Effective June 10, 1998. Submit written comments at any time.

ADDRESSES: Submit written comments on the guidance to the Dockets Management Branch (HFA-305), Food and Drug Administration, 12420 Parklawn Dr., rm. 1–23, Rockville, MD 20857. Copies of the guidance are available from the Drug Information Branch (HFD–210), Center for Drug Evaluation and Research, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20857, 301–827–4573. Single copies of the guidance may be obtained by mail from the Office of Communication, Training and Manufacturers Assistance (HFM–40), Center for Biologics Evaluation and Research (CBER), or by calling the CBER Voice Information System at 1–800–835–4709 or 301–827–1800. Copies may be obtained from CBER’s FAX Information System at 1–888–CBER–FAX or 301–827–3844.

SUPPLEMENTARY INFORMATION: In recent years, many important initiatives have been undertaken by regulatory authorities and industry associations to promote international harmonization of regulatory requirements. FDA has participated in many meetings designed to enhance harmonization and is committed to seeking scientifically based harmonized technical procedures for pharmaceutical development. One of the goals of harmonization is to identify and then reduce differences in technical requirements for drug development among regulatory agencies. ICH was organized to provide an opportunity for tripartite harmonization initiatives to be developed with input from both regulatory and industry representatives. FDA also seeks input from consumer representatives and others. ICH is concerned with harmonization of technical requirements for the registration of pharmaceutical products among three regions: the European Union, Japan, and the United States. The six ICH sponsors are the European Commission, the European Federation of Pharmaceutical Industries and Associations, the Japanese Ministry of Health and Welfare, the Japanese Pharmaceutical Manufacturers Association, the Centers for Drug Evaluation and Research and Biologics Evaluation and Research, FDA, and the Pharmaceutical Research and Manufacturers of America. The ICH Secretariat, which coordinates the preparation of documentation, is provided by the International Federation of Pharmaceutical Manufacturers Associations (IFPMA).

In the Federal Register of July 31, 1997 (62 FR 41054), FDA published a draft tripartite guideline entitled “Ethnic Factors in the Acceptability of Foreign Clinical Data” (E5). The notice gave interested persons an opportunity to submit comments by October 29, 1997. After consideration of the comments received and revisions to the guidance, a final draft of the guidance was submitted to the ICH Steering Committee and endorsed by the three participating regulatory agencies on February 5, 1998.

In accordance with FDA’s good guidance practices (62 FR 8961, February 27, 1997), this document has been designated a guidance, rather than a regulation. The guidance is intended to facilitate the registration of drugs and biologics among ICH regions by recommending a framework for evaluating the impact of ethnic factors on a drug’s effect, i.e., its efficacy and safety at a particular dosage and dose regimen. The guidance recommends regulatory and development strategies that will permit adequate evaluation of the influence of ethnic factors, minimize duplication of clinical studies, and expedite the drug approval process.

This guidance represents the agency’s current thinking on ethnic factors in the acceptability of foreign clinical data for approval of both drugs and biologics. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. An alternative approach may be used if such approach satisfies the requirements of the applicable statute, regulations, or both.

As with all of FDA’s guidelines, the public is encouraged to submit written comments with new data or other new information pertinent to this guidance. The comments in the docket will be
1.0 Introduction

The purpose of this guidance is to facilitate the registration of medicines among ICH regions (see Glossary) by recommending a framework for evaluating the impact of ethnic factors upon a medicine’s effect, i.e., its efficacy and safety at a particular dosage and dose regimen. It provides guidance with respect to regulatory and development strategies that will facilitate acceptance of foreign clinical data while minimizing duplication of clinical studies and supporting medicines expeditiously to patients for their benefit. This guidance should be implemented in context with other ICH guidelines. For the purposes of this document, ethnic factors are defined as those factors relating to the genetic and physiologic (intrinsic) and the cultural and environmental (extrinsic) characteristics of a population (Appendix A).

1.1 Objectives

To describe the characteristics of foreign clinical data that will facilitate their extrapolation to the new region and support their acceptance as a basis for registration of a medicine in a new region.

- To describe regulatory strategies that minimize duplication of clinical data and facilitate acceptance of foreign clinical data in the new region.
- To describe the use of bridging studies, when necessary, to allow extrapolation of foreign clinical data to a new region.
- To describe development strategies capable of characterizing ethnic factor influences on safety, efficacy, dosage, and dose regimen.

1.2 Background

All of the ICH regions acknowledge the desirability of utilizing foreign clinical data that meet the regulatory standards and clinical trial practices acceptable to the region considering the application for registration. However, concern that ethnic differences may affect the medication’s safety, efficacy, dosage, and dose regimen in the new region has limited the willingness to rely on foreign clinical data. Historically, this has been one of the reasons, therefore, the regulatory authority in the new region has often requested that all, or much of, the foreign clinical data in support of registration be duplicated in the new region. Although ethnic differences among populations may cause differences in a medicine’s safety, efficacy, dosage, or dose regimen, many medicines have comparable characteristics and effects across regions. Requirements for extensive duplication of clinical evaluation for every compound can delay the availability of new therapies and unnecessarily waste drug development resources.

1.3 Scope

This guidance is based on the premise that it is not necessary to repeat the entire clinical drug development program in the new region and is intended to recommend strategies for accepting foreign clinical data as full or partial support for approval of an application in a new region. It is critical to appreciate that this guidance is not intended to alter the data requirements for registration in the new region; it seeks to recommend when these data requirements may be satisfied with foreign clinical data. All data in the clinical data package, including foreign data, should meet the standards of the new region with respect to study design and conduct, and the available data should satisfy the regulatory requirements of the new region. Additional studies conducted in any region may be required by the new region to complete the clinical data package.

Once a clinical data package fulfills the regulatory requirements of the new region, the only remaining issue with respect to the acceptability of the foreign clinical data is its ability to be extrapolated to the population of the new region. When the regulatory authority or the sponsor is concerned that differences in ethnic factors could alter the efficacy or safety of the medicine in the population in the new region, the sponsor may need to generate a limited amount of clinical data in the new region in order to extrapolate or “bridge” clinical data between the two regions. If a sponsor needs to obtain additional clinical data to fulfill the regulatory requirements of the new region, it is possible that these clinical trials can be designed to also serve as the bridging studies.

Thus, the sponsor and the regional regulatory authority of the new region would assess an application for registration for:

1. Its completeness with respect to the regulatory requirements of the new region, and
2. The ability to extrapolate to the new region those parts of the application (which could be most or all of the application) based on studies from the foreign region (Appendix B).

2.0 Assessment of the Clinical Data Package Including Foreign Clinical Data for Its Fulfillment of Regulatory Requirements in the New Region

The regional regulatory authority would assess the clinical data package, including foreign data, as to whether or not it meets all of the regulatory standards regarding the nature and quality of the data, irrespective of its geographic origin, i.e., data generated either totally in a foreign region or data from studies conducted both in a foreign and the new region to which the application is being made. A clinical data package that meets all of these regional regulatory requirements is defined as a “complete” clinical data package for submission and potential approval. The acceptability of the foreign clinical data component of the complete data package depends then upon whether it can be extrapolated to the population of the new region.

Before extrapolation can be considered, the complete clinical data package, including foreign clinical data, submitted to the new region should contain:

- Adequate characterization of pharmacokinetics, pharmacodynamics, dose response, efficacy, and safety in the population of the foreign region(s).
- Clinical trials establishing dose response, efficacy and safety. These trials should:

---

1. This guidance represents the agency’s current thinking on ethnic factors in the acceptability of foreign clinical data for approval of both drugs and biologicals. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. An alternative approach may be used if such approach satisfies the requirements of the applicable statute, regulations, or both.
Be designed and conducted according to regulatory standards in the new region, e.g., choice of controls, and should be conducted according to good clinical practice (GCP).

Be adequate and well-controlled.

Utilize endpoints that are considered appropriate for the assessment of treatment.

Evaluate clinical disorders using medical and diagnostic definitions that are acceptable to the new region.

Characterization in a population relevant to the new region of the pharmacokinetics, and where possible, pharmacodynamics and dose response for pharmacodynamic endpoints. This characterization could be performed in the foreign region in a population representative of the new region or in the new region.

Endpoints that address aspects of design, conduct, analysis, and reporting of clinical trials will help implement the concepts of the complete clinical data package. These guidelines include GCP’s (E6), evaluation of dose response (E4), adequacy of safety, and conduct of studies in the elderly (E7), reporting of study results (E3), general considerations for clinical trials (E8), and statistical considerations (E9). A guidance on the choice of control group in clinical study design (E10) is under development.

2.1 Additional Studies to Meet the New Region’s Regulatory Requirements

When the foreign clinical data do not meet the regional regulatory requirements, the regulatory authority may require additional clinical trials such as:

- Clinical trials in different subsets of the population, such as patients with renal insufficiency, patients with hepatic dysfunction, etc.
- Clinical trials using different comparators at the new region’s approved dosage and dose regimen.
- Drug-drug interaction studies.

3.0 Assessment of the Foreign Clinical Data for Extrapolation to the New Region

3.1 Characterization of the Medicine’s Sensitivity to Ethnic Factors

To assess a medicine’s sensitivity to ethnic factors, it is important that there be knowledge of its pharmacokinetic and pharmacodynamic properties and the translated effects of those properties to clinical effectiveness and safety. A reasonable evaluation is described in Appendix C. Some properties of a medicine (chemical class, metabolic pathway, pharmacologic class) make it more or less likely to be affected by ethnic factors (Appendix D). Characterization of a medicine as “ethnically insensitive,” i.e., unlikely to behave differently in different populations, would usually make it easier to extrapolate data from one region to another and need less bridging data.

Factors that make a medicine ethnically sensitive or insensitive will become better understood and documented as effects in different regions are compared. It is clear at present, however, that such characteristics as clearance by an enzyme showing genetic polymorphism and a steep dose-response curve will make ethnic differences more likely. Conversely, a lack of metabolism or active excretion, a wide therapeutic dose range, and a flat dose-response curve will make ethnic differences less likely.

The clinical experience with other members of the drug class in the new region will also contribute to the assessment of the medicine’s sensitivity to ethnic factors. It may be easier to conclude that the pharmacodynamic and clinical behavior of a medicine will be similar in the foreign and new regions if other members of the pharmacologic class have been studied and approved in the new region with dosing regimens similar to those used in the original region.

3.2 Bridging Data Package

3.2.1 Definition of Bridging Data Package and Bridging Study

A bridging data package consists of:

1. Selected information from the complete clinical data package that is relevant to the population of the new region, including pharmacokinetic data, and any preliminary pharmacodynamic and dose-response data and, if needed, (2) a bridging study to extrapolate the foreign efficacy data and/or safety data to the new region.

A bridging study is defined as a study performed in the new region to provide pharmacodynamic or clinical data on efficacy, safety, dosage, and dose regimen in the new region that will allow extrapolation of the foreign clinical data to the population in the new region. A bridging study for efficacy could provide additional pharmacokinetic information in the population of the new region. When no bridging study is needed to provide clinical data for efficacy, a pharmacokinetic study in the new region may be considered as a bridging study.

3.2.2 Nature and Extent of the Bridging Study

This guidance proposes that when the regulatory authority of the new region is presented with a clinical data package that fulfills its regulatory requirements, the authority should request only those additional studies to assess the ability to extrapolate foreign data from the complete clinical data package to the new region. The sensitivity of the medicine to ethnic factors will help determine the amount of such data. In most cases, a single trial that successfully provides these data in the new region and confirms the ability to extrapolate data from the original region should suffice and should not need further replication. Note that even though a single study should be sufficient to “bridge” efficacy data, a sponsor may find it practical to obtain the necessary data by conducting more than one study. For example, where it is intended that a fixed dose, dose-response study using a clinical endpoint is needed as the bridging study, a short-term pharmacologic endpoint study may be used to choose the doses for the larger (confirmatory) study.

When the regulatory authority requests, or the sponsor decides to conduct, a bridging study, discussion between the regional regulatory authority and sponsor is encouraged, when possible, to determine what kind of bridging study will be needed. The relative ethnic sensitivity will help determine the need for and the nature of the bridging study.

For regions with little experience with registration based on foreign clinical data, the regulatory authorities may still request a bridging study for approval even for compounds insensitive to ethnic factors. As experience with interregional acceptance increases, there will be a better understanding of situations in which bridging studies are needed. It is hoped that with experience, the need for bridging data will lessen.

The following is general guidance about the ability to extrapolate data generated from a bridging study:

- If the bridging study shows that dose response, safety, and efficacy in the new region are similar, then the study is readily interpreted as capable of “bridging” the foreign data.
- If a bridging study, properly executed, indicates that a different dose in the new region results in a safety and efficacy profile that is not substantially different from the one derived in the original region, it will often be possible to extrapolate the foreign data to the new region, with appropriate dose adjustment, if this can be adequately justified (e.g., by pharmacokinetic and/or pharmacodynamic data).
- If the bridging study designed to extrapolate the foreign data is not of sufficient size to confirm adequately the extrapolation of the adverse event profile to the new population, additional safety data may be necessary (section 3.2.4).
- If the bridging study fails to verify safety and efficacy, additional clinical data (e.g., confirmatory clinical trials) would be necessary.

3.2.3 Bridging Studies for Efficacy

Generally, for medicines characterized as insensitive to ethnic factors, the type of bridging study needed (if needed) will depend upon experience with the drug class and upon the likelihood that extrinsic ethnic factors (including design and conduct of clinical trials) could affect the medicine’s safety, efficacy, and dose-response. For medicines that are ethnically sensitive, a bridging study may often be needed if the populations in the two regions are different. The following examples illustrate types of bridging studies for consideration in different situations:

- No bridging study
- In some situations, extrapolation of clinical data may be feasible without a bridging study:
  1. If the medicine is ethnically insensitive and extrinsic factors such as medical practice and conduct of clinical trials in the two regions are generally similar.
  2. If the medicine is ethnically sensitive but the two regions are ethnically similar and there is sufficient clinical experience with pharmacologically related compounds to provide reassurance that the class behaves similarly in patients in the two regions with respect to efficacy, safety, dosage, and dose regimen.
- Bridging studies using pharmacologic endpoints
If the regions are ethnically dissimilar and the medicine is ethnically sensitive but extrinsic factors are generally similar (e.g., medical practice, design and conduct of clinical trials) and the drug class is a familiar one in the new region, a controlled pharmacodynamic study in the new region, using a pharmacologic endpoint that is thought to reflect relevant drug activity (which could be a well-established surrogate endpoint), could provide assurance that the efficacy, safety, and dose regimen data developed in the first region are applicable to the new region. Simultaneous pharmacokinetic (i.e., blood concentration) measurements may make such studies more interpretable.

- **Controlled clinical trials**

  It will usually be necessary to carry out a controlled clinical trial, often a randomized, fixed dose, dose-response study, in the new region when:
  - There are doubts about the choice of dose,
  - There is little or no experience with acceptance of controlled clinical trials carried out in the foreign region,
  - Medical practice (e.g., use of concomitant medications and design and/or conduct of clinical trials) is different, or
  - The drug class is not a familiar one in the new region.

  Depending on the situation, the trial could replicate the foreign study or could utilize a standard clinical endpoint in a study of shorter duration than the foreign studies or utilize a validated surrogate endpoint, e.g., blood pressure or cholesterol (longer studies and other endpoints may have been used in the foreign phase III clinical trials).

  If pharmacodynamic data suggest that there are interregional differences in response, it will generally be necessary to carry out a controlled trial with clinical endpoints in the new region. Pharmacodynamic differences may not always create that necessity, as dosage adjustments in some cases might be made without new trials. However, any substantial difference in metabolic pattern may often indicate a need for a controlled clinical trial.

  A sponsor of medicine differs significantly in the use of concomitant medications, or adjunct therapy could alter the medicine’s efficacy or safety, the bridging study should be a controlled clinical trial.

3.2.4 Bridging Studies for Safety

Even though the foreign clinical data demonstrate efficacy and safety in the foreign region, there may occasionally remain a safety concern in the new region. Safety concerns could include the accurate determination of the rates of relatively common adverse events in the new region and the detection of serious adverse events (in the 1 percent range and generally needing about 300 patients to assess). Depending upon the nature of the safety concern, safety data could be obtained in the following situations:

- A bridging study to assess efficacy, such as a dose-response study, could be powered to address the rates of common adverse events and could also allow identification of serious adverse events that occur more commonly in the new region. Close monitoring of such a trial would allow recognition of such serious events before an unnecessarily large number of patients in the new region are exposed. Alternatively, a small safety study could precede the bridging study to provide assurance that serious adverse effects were not occurring at a high rate.

- If there is no efficacy bridging study needed or if the efficacy bridging study is too small or of insufficient duration to provide adequate safety information, a separate safety study may be needed. This could occur where there is:
  - An index case of a serious adverse event in the foreign clinical data,
  - A concern about differences in reporting adverse events in the foreign region,
  - Only limited safety data in the new region arising from an efficacy bridging study, inadequate to extrapolate important aspects of the safety profile, such as rates of common adverse events or more serious adverse events.

4.0 Developmental Strategies for Global Development

Definition of not only pharmacokinetics but also pharmacodynamics and dose response early in the development program may facilitate the determination of the need for, and nature of, any requisite bridging study. Any candidate medicine for global development should be characterized as ethnically sensitive or insensitive (Appendix D). Ideally, this characterization should be conducted during the early clinical phases of drug development, i.e., human pharmacology and therapeutic exploratory studies. In some cases, it may be useful to discuss bridging study designs with regulatory agencies prior to completion of the clinical data package. However, analysis of the data within the complete clinical data package will determine the need for, and type of bridging study. For global development, studies should include populations representative of the regions where the medicine is to be registered and should be conducted according to ICH guidelines.

A sponsor of medicine differs significantly in the use of concomitant medications, or adjunct therapy could alter the medicine’s efficacy or safety, the bridging study should be a controlled clinical trial.

Complete clinical data package: A clinical data package intended for registration containing clinical data that fulfill the regulatory requirements of the new region and containing pharmacokinetic data relevant to the population in the new region. Compound insensitive to ethnic factors: A compound whose characteristics suggest minimal potential for clinically significant impact by ethnic factors on safety, efficacy, or dose response. Compound sensitive to ethnic factors: A compound whose pharmacokinetic, pharmacodynamic, or other characteristics suggest the potential for clinically significant impact by intrinsic and/or extrinsic ethnic factors on safety, efficacy, or dose response.

Dose regimen: The route, frequency and duration of administration of the dose of a medicine over a period of time.

Ethnic factors: The word ethnicity is derived from the Greek word “ethnos,” meaning nation or people. Ethnic factors are factors relating to races or large populations grouped according to common traits and customs. Note that this definition gives ethnicity, by virtue of its cultural as well as genetic implications, a broader meaning than racial. Ethnic factors may be classified as either intrinsic or extrinsic. (Appendix A)

Extrinsic ethnic factors: Extrinsic ethnic factors are factors associated with the environment and culture in which a person resides. Extrinsic factors tend to be less genetically and more culturally and
behaviorally determined. Examples of extrinsic factors include the social and cultural aspects of a region such as medical practice, diet, use of tobacco, use of alcohol, exposure to pollution and sunshine, socioeconomic status, compliance with prescribed medications, and, particularly important to the reliance on studies from a different region, practices in clinical trial design and conduct.

- Intrinsic ethnic factors: Intrinsic ethnic factors are factors that help to define and identify a subpopulation and may influence the ability to extrapolate clinical data between regions. Examples of intrinsic factors include genetic polymorphism, age, gender, height, weight, lean body mass, body composition, and organ dysfunction.

Extrapolation of foreign clinical data: The generalization and application of the safety, efficacy, and dose-response data generated in a population of a foreign region to the population of the new region. Foreign clinical data: Foreign clinical data is defined as clinical data generated outside of the new region (i.e., in the foreign region).

<table>
<thead>
<tr>
<th>INTRINSIC</th>
<th>PHYSIOLOGICAL AND PATHOLOGICAL CONDITIONS</th>
<th>EXTRINSIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genetic</td>
<td>Age (children-elderly)</td>
<td>Environmental</td>
</tr>
<tr>
<td>Gender</td>
<td>Height</td>
<td>Climate</td>
</tr>
<tr>
<td></td>
<td>Bodyweight</td>
<td>Sunlight</td>
</tr>
<tr>
<td>ADME</td>
<td>Liver</td>
<td>Pollution</td>
</tr>
<tr>
<td>Receptor sensitivity</td>
<td>Kidney</td>
<td>Culture</td>
</tr>
<tr>
<td>Race</td>
<td>Cardiovascular functions</td>
<td>Socioeconomic factors</td>
</tr>
<tr>
<td>Genetic polymorphism of the drug metabolism</td>
<td>Smoking Alcohol</td>
<td>Educational status</td>
</tr>
<tr>
<td>Genetic diseases</td>
<td>Diseases</td>
<td>Language</td>
</tr>
<tr>
<td></td>
<td>Food habits</td>
<td>Medical practice</td>
</tr>
<tr>
<td></td>
<td>Stress</td>
<td>Disease definition/Diagnostic</td>
</tr>
<tr>
<td></td>
<td>Regulatory practice/GCP</td>
<td>Therapeutic approach</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drug compliance</td>
</tr>
</tbody>
</table>

Appendix A: Classification of intrinsic and extrinsic ethnic factors
Appendix B: Assessment of the clinical data package (CDP) for acceptability

Assessment of the clinical data package in the new region

- Question 1: Meets regulatory requirements? Yes → Yes, No further clinical study needed
  No → No

Further clinical study(ies) needed for acceptability by the new region

- Question 2: Extrapolation of foreign data appropriate? Yes → Yes
  No → No

- Question 3: Acceptability in the new region?
  - Yes
  - No

Appendix C: Pharmacokinetic, pharmacodynamic, and dose-response considerations

Evaluation of the pharmacokinetics and pharmacodynamics, and their comparability, in the three major racial groups in the ICH regions (Asian, Black, and Caucasian) is critical to the registration of medicines in the ICH regions. Basic pharmacokinetic evaluation should characterize absorption, distribution, metabolism, excretion (ADME), and where appropriate, food-drug and drug-drug interactions.

Adequate pharmacokinetic comparison between populations of the two regions allows rational consideration of what kinds of further pharmacodynamic and clinical studies (bridging studies) are needed in the new region. In contrast to the pharmacokinetics of a medication, where differences between populations may be attributed primarily to intrinsic ethnic factors and are readily identified, the pharmacodynamic response (clinical effectiveness, safety, and dose response) may be influenced by both intrinsic and extrinsic ethnic factors and may be difficult to identify except by conducting clinical studies in the new region.

The ICH E4 document describes various approaches to dose-response evaluation. In general, dose response (or concentration response) should be evaluated for both pharmacologic effect (where one is considered pertinent) and clinical endpoints in the foreign region. The pharmacologic effect, including dose response, may also be evaluated in the foreign region in a population representative of the new region. Depending on the situation, data on clinical efficacy and dose response in the new region may or may not be needed, e.g., if the drug class is familiar and the pharmacologic effect is closely linked to clinical effectiveness and dose response, these foreign pharmacodynamic data may be a sufficient basis for approval and clinical endpoint and dose-response data may not be needed in the new region. The pharmacodynamic evaluation, and possible clinical evaluation (including dose response) is important because of the possibility that the response curve may be shifted in a new population. Examples of this are well-documented, e.g., the decreased response in blood pressure of blacks to angiotensin converting enzyme inhibitors.

Appendix D: A medicine's sensitivity to ethnic factors

Characterization of a medicine according to the potential impact of ethnic factors upon its pharmacokinetics, pharmacodynamics, and therapeutic effects may be useful in determining what sort of bridging study is needed in the new region. The impact of ethnic factors upon a medicine's effect will vary depending upon the drug's pharmacologic class and indication and the age and gender of the patient. No one property of the medicine is predictive of the compound's relative sensitivity to ethnic factors. The type of bridging study needed is ultimately a matter of judgment, but assessment of sensitivity to ethnic factors may help in that judgment.

The following properties of a compound make it less likely to be sensitive to ethnic factors:
- Linear pharmacokinetics (PK).
- A flat pharmacodynamic (PD) (effect-concentration) curve for both efficacy and safety in the range of the recommended dosage and dose regimen (this may mean that the medicine is well-tolerated).
- A wide therapeutic dose range (again, possibly an indicator of good tolerability).
(6) what members of the public will be affected by the proposal; (7) how frequently information submissions will be required; (8) an estimate of the total number of hours needed to prepare the information submission including number of respondents, frequency of response, and hours of response; (9) whether the proposal is new, an extension, reinstatement, or revision of an information collection requirement; and (10) the names and telephone numbers of an agency official familiar with the proposal and of the OMB Desk Officer for the Department.


David S. Cristy,
Director, IRM Policy and Management Division.

Title of Proposal: Public and Indian Housing: Demolition/Disposition/Conversion/Taking of Units or Property.

Office: Public and Indian Housing.

OMB Approval Number: 2577-0075.

Description of The Need For The Information and Its Proposed Use: The purpose of the Housing Authorities request is to seek HUD approval of a change in a public housing development application from what was originally authorized under the Annual Contributions Contract.

Form Number: 52860.

Respondents: State, Local, or Tribal Governments.

Frequency of Submission: Recordkeeping and Annually.

Reporting Burden:

<table>
<thead>
<tr>
<th>Number of respondents</th>
<th>Frequency of response</th>
<th>Hours per response</th>
<th>Burden hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recordkeeping</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Estimated Burden Hours: 2,040.

Status: Reinstatement, with no changes.


DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

[DOCKET NO. FR-4181-N-06]

Public and Indian Housing Drug Elimination Program Announcement of Funding Awards for FY 1997

AGENCY: Office of the Assistant Secretary for Public and Indian Housing, HUD.

ACTION: Announcement of funding awards.

SUMMARY: In accordance with section 102(a)(4)(C) of the Department of Housing and Urban Development Reform Act of 1989, this announcement notifies the public of funding decisions made by the Department in competition for funding under the Notice of Funding Availability (NOFA) for the Public and Indian Housing Drug Elimination...