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To be submitted in duplicate

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UNIVERSITY OF LONDON

### Ph.D Examination for External Students

#### APPLICATION FOR REGISTRATION

The candidate should complete this form in duplicate and forward it by Registered Post, using the enclosed label.

The fee should be sent by cheque or postal orders made payable to 'University of London' and crossed 'Natwest' Bank, a/c payee'.

The University will not be responsible for fees sent other than in accordance with the above instructions.

Formal receipts for fees will not be sent unless specially requested.

Registration Fee

£50

The fee, together with the enclosed Fee Slip, must be forwarded with this form.

Name (in full) SARAH HAWKER COSTA (Mrs.) Date of birth 4.6.49  
Surname in block letters and underlined. State whether Mr, Mrs, Miss or other title, and also give maiden name if applicable.

Address Rua Nascimento Silva, 104 CO 1 - Ipanema - Rio de Janeiro - Brazil  
(Any change in this address must be notified to the University)

Degree(s) of this University. [State date(s), whether Internal or External, Faculty, subject(s), Class of Honours and, in the case of a higher degree, title of thesis/dissertation (if any).]

M.Sc. Medical Demography Faculty of Medicine.

October 1972. Internal Student. London School of Hygiene and Tropical Medicine.  
"A statistical investigation into the effects of maternal age parity and birth concentration on stillbirth and infant mortality rates in each social class"

Degree(s) of any other University (if any), including name of University, class where appropriate, subject(s), date of award and, in the case of a higher degree, title of thesis/dissertation (if any).

B.Sc. Human Biology Second Class Honours

University of Surrey. June 1971.

Other qualifications (if any)

Proposed Date of Examination May 1984 [Note. This application must normally be made not less than four calendar years before a candidate proposes to submit his thesis.]

Name of Institution, if any, responsible for the direction of your studies for this examination, or facilities available for carrying out the proposed research, including the name and official position of any person who has agreed to give you guidance: Professor. W. Brass. London School of Hygiene and Tropical Medicine

Present Occupation Senior Research Officer - National School of Public Health, Rio de Janeiro.

#### Proposed Field of Research

Does your proposed field of research relate to work done in the course of employment (Yes or No)  
Yes

State here briefly your proposed field of research.

[Note. The exact title of your thesis must be submitted for consideration not less than twelve months before you intend to enter for the examination. Give overleaf further details of the scope of your proposed field and your proposed method.]

Overall objectives of research: To contribute to the understanding of the recent fertility trends in Brazil by describing patterns in the family formation variables and contraceptive practices of three rural-born population groups.

The three rural-born populations have been selected as case-studies of particular relevance to the Brazilian socio-economic development process.

Do not write below this line.

[P.T.O.]

#### FOR OFFICIAL USE ONLY

Referred to the Board of Studies in..... Date.....

Decisions ('Approved' or 'Rejected' or other decision):

Qualifications..... Field of Research.....

Adviser nominated .....

Qualifying Examination (if required).....

Chairman/Secretary signature..... Date.....

FACULTY..... SUBJECT.....

Registered for entry to the examination on or after

Notification sent

(If possible the information given on this page should be typewritten)

**Proposed scope and method of treatment of thesis subject.**

The recent fall in fertility levels and the constation of important regional and rural-urban differences to this global trend suggests that in order to understand the Brazilian demographic transition, surveys of particular social formations are needed.

The research aims at answering some of the questions related to aspects of the relationship between fertility, migration and urbanization within the present Brazilian context;

- is urbanization, as a social process, dominant in the fall of fertility? If so, how can this be measured in terms of the variables related to family formation and contraceptive practice.

- is migration, as a social process, bringing (or selecting) those people ready to adopt new reproductive patterns? If so, is rural-urban migration the same as rural-rural in terms of fertility? Are the rural non-migrants keeping their "former reproductive patterns"?

**Specific objectives:** These are related to the estimation of:

- the differential fertility between the study populations.
- the family formation variables - age at marriage, age at first pregnancy, family size, no. infant deaths, no. abortions, no. of stillbirths, pregnancy order, birth order, gravidity, parity, birth interval.
- the contraceptive practice.

**Study Populations:** Three rural-born populations in distinct settings have been chosen.

(1) A population situated in the Agricultural Frontier Regions (in expansion) in the Amazon, characteristically composed of rural - rural migrants attracted by large governmental projects for the development and occupation of the area. A sample from two States will be taken - Mato Grosso and Par .

(2) A population which represents the secular trend of rural-rural migration to the peripheral areas of the large cities. The sample will be taken from the slum areas of the City of Rio de Janeiro -- X Administrative region.

(3) A population which has remained in a rural area on a stable basis. The area chosen for study is situated in Rio Grande do Sul and represents an area where agriculture has largely been modernized, and small land owners have been expelled.

**Sample:** This will be calculated based on estimates of variances for fertility and attributes of interest to the study. A multi-staged procedure will be adopted. Data will be collected using a questionnaire which covers all the relevant material for the identification and socio-economic characterization of women and families and their reproductive histories. Women aged 18 years and over, (younger in cases of existing unions) will be interviewed. (Full details of methodology are available in original project protocol).

**Chronogramme and Funding:** The data collection for the first population (Amazon rural-rural migrants) has been completed. Field work took 4 months and data is being edited. The second stage is scheduled for October and will be completed by December (Slums Rio de Janeiro - rural-urban migrants). Details for the third stage are still to be elaborated. The first two stages have received funding from different sources including the National Council for Developing Research in Science and Technology. Funds will be requested for the third stage shortly (Secretary for Science and Technology - Ministry of Health).

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**DECLARATION TO BE SIGNED BY THE CANDIDATE**

I declare that I am not at present registered as an Internal or as an Associate Student of the University of London, and that I am not now registered as an External Student for any examination other than that proposed on this form.

Candidate's Signature..... Date.....

UNIVERSITY OF LONDON

Ph.D Examination for External Students in the Faculties of Medicine, Science and Engineering

APPLICATION FOR REGISTRATION

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The fee should be sent by cheque or money order. Cheques should be made payable to 'University of London' and crossed 'National Westminster Bank, Tavistock Square Branch, University of London Account'.

The University will not be responsible for fees sent other than in accordance with the above instructions.

Formal receipts for fees will not be sent unless specially requested.

Registration Fee £35

The fee, together with the enclosed Fee Slip, must be forwarded with this form.

Name (in full) ...Mrs...Sarah.Hawker..Costa..... Date of birth ...4.6.49.... Surname in block letters and underlined.

Address Rua..Jardim..Botânico..309..ap..102...Rio..de..Janeiro..20.000--Brazil (Any change in this address must be notified to the University.)

Degree(s) of this University. [State date(s), whether Internal or External, Faculty, subject(s) and Class of Honours (if any)] ..M.Sc...Medical..Demography...Faculty..of..Medicine..... October..1972...Internal..Student...London..School..of..Hygiene..+..Tropical Medicine

Degree(s) of any other University (if any), including class where appropriate .B.Sc...Human..Biology Second..Class..Honours...Surrey..University...1971.....

Proposed Date of Examination ....October..1979..... [Note.—This application must be made at least two calendar years before a candidate proposes to present himself for examination.]

Facilities available for carrying out the proposed research, including the name and official position of any person from whom you are receiving advice or guidance ..Professor..W...Brass..... Department..Medical..Demography...London..School..of..Hygiene..and... Tropical Medicine (See Overleaf for Financial Resources)

Present Occupation Lecturer/Research Assistant -- Instituto Castello Branco (School of Public Health)

Proposed field of Research

Faculty .....Medicine..... Subject .....Medical..Demography..... [Note.—The exact title of your thesis or dissertation must be submitted for consideration not less than twelve months before you intend to enter for the examination.]

State here briefly your proposed field of research within the subject.

The general objective of the research is to examine the effects of various social and biological variables on foetal mortality, based on data collected in the city of Rio de Janeiro.

[P.T.O.]

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Referred to the Board of Studies in .....

Recommendations:

(i) Qualifications .....

(ii) Field of research .....

(iii) Adviser nominated .....

Qualifying Examination (if required) .....

Signature ..... Date .....

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Proposed scope and method of treatment of thesis subject.

Foetal mortality is a problem estimated to affect in the order of 500,000 women annually in Brazil but from a demographic point of view few systematic studies have been carried out.

In the present research the author aims at collecting <sup>sufficient</sup> ~~different~~ data to enable a thorough analysis of the independent effects of the biological and social factors which are associated with foetal death. Particular interest is being directed towards the relationship between maternal age, birth order, and birth interval and the outcome of gestation.

A further objective will be to evaluate the quality of different sources of information and to attempt to construct a mathematical model to predict the associated risks to gestation.

#### Stages of the project

The following intermediary objectives can be considered as stages of the research. The planning of the last stage; the field work, will be based on the results of these intermediary stages.

(1) To describe the distribution of foetal mortality in Rio and its evolution over the past decade from information computed by the "Serviço de Biostatística da Secretaria de Saúde".

(2) To study the medical causes of insucessful gestation from data collected by a maternity clinic between 1962-75.

(3) To study the reproductive histories of 1,500 women from data collected recently, by the author, in a retrospective field study (a pilot study).

(4) To carry out a longitudinal study, following the gynecological and obstetrical histories of a group of women in the fertile age group: Monthly interviews will be conducted by the auxillary workers of the Maternal Child Health Unit attached to the School of Public Health, which serves the field study area. The planning of this part of the project is very much dependent on the results of the earlier stages which are being completed at present.

The project is one of several studies included in a programme which aims at developing a Centre of Epidemiology and Statistics in the School of Public Health. It is receiving the financial backing of the Brazilian Government; the money coming from the National Fund for Developing Science and Technology in the country. The grant for this research is in the order of £20,000/annum and will be supplied for a duration of 3 years. The project was started by the author in July 1975 and has the professional support of the National School of Public Health, part of "Fundação Oswaldo Cruz" - Ministry of Health.

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**Proposed scope and method of treatment of thesis subject.**

The recent fall in fertility levels and the constation of important regional and rural-urban differences to this global trend suggests that in order to understand the Brazilian demographic transition, surveys of particular social formations are needed.

The research aims at answering some of the questions related to aspects of the relationship between fertility, migration and urbanization within the present Brazilian context;

- is urbanization, as a social process, dominant in the fall of fertility? If so, how can this be measured in terms of the variables related to family formation and contraceptive practice.

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**Specific objectives:** These are related to the estimation of:

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- the family formation variables - age at marriage, age at first pregnancy, family size, no. infant deaths, no. abortions, no. of stillbirths, pregnancy order, birth order, gravidity, parity, birth interval.
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**Study Populations:** Three rural-born populations in distinct settings have been chosen.

(1) A population situated in the Agricultural Frontier Regions (in expansion) in the Amazon, characteristically composed of rural - rural migrants attracted by large governmental projects for the development and occupation of the area. A sample from two States will be taken - Mato Grosso and Par .

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(3) A population which has remained in a rural area on a stable basis. The area chosen for study is situated in Rio Grande do Sul and represents an area where agriculture has largely been modernized, and small land owners have been expelled.

**Sample:** This will be calculated based on estimates of variances for fertility and attributes of interest to the study. A multi-staged procedure will be adopted. Data will be collected using a questionnaire which covers all the relevant material for the identification and socio-economic characterization of women and families and their reproductive histories. Women aged 18 years and over, (younger in cases of existing unions) will be interviewed. (Full details of methodology are available in original project protocol).

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