




FP7-ENV-2008-226873  
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## **D1.5 Periodic Summary of Data Collection**

**WP1 – Scientific Coordination**


**V1.1  
FINAL**

Lead beneficiary: CREAL  
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Nature: Report  
Dissemination level: RE

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## Document Information

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| Grant Agreement Number | ENV-226873   | Acronym | MOBI-KIDS |
| Full title             | Risk of brain cancer from exposure to radiofrequency fields in childhood and adolescence |         |           |
| Project URL            | http://www.mbkds.com/  |         |           |
| EU Project officer     | [REDACTED]   |         |           |



|              |        |     |       |                                       |
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## Document History

| Name       | Date       | Version | Description                          |
|------------|------------|---------|--------------------------------------|
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## Definitions

- Partners of the MOBI-KIDS Consortium are referred to herein according to the following codes:
  - CREAL** - Fundació Centre de Recerca en Epidemiologia Ambiental (Spain) – Coordinator
  - FIMIM** - Fundació IMIM (Spain) – Beneficiary
  - UU** - Universiteit Utrecht (Netherlands) – Beneficiary
  - FT** - France Telecom SA (France) – Beneficiary
  - HPA** - Health Protection Agency (United Kingdom) – Beneficiary
  - LMU** - Ludwig-Maximilians-Universitaet Muenchen (Germany) – Beneficiary
  - MUV** - Medizinische Universitaet Wien (Austria) – Beneficiary
  - UNITO** - Università degli Studi di Torino (Italy) – Beneficiary
  - ARECEA** - Association pour la Recherche Epidémiologique dans les Cancers de l'Enfant et de l'Adolescent (France) – Beneficiary
  - UOA-SARG** - National and Kapodistrian University of Athens (Greece) – Beneficiary
  - GERTNER** - Gertner Institute for Epidemiology & Health Policy Research (Israel) – Beneficiary
  - UOTTAWA** - University of Ottawa (Canada)
  - MONASH** - Monash University (Australia)
  - AUCKLANDUNI** - The University of Auckland (New Zealand)
- **Grant Agreement:** The agreement signed between the beneficiaries and the European Commission for the undertaking of the MOBI-KIDS project (ENV-226873).
- **Project:** The sum of all activities carried out in the framework of the Grant Agreement.
- **Work plan:** Schedule of tasks, deliverables, efforts, dates and responsibilities corresponding to the work to be carried out, as specified in Annex I to the Grant Agreement.
- **Consortium:** The MOBI-KIDS Consortium, conformed by the above-mentioned legal entities.
- **Consortium Agreement:** Agreement concluded amongst MOBI-KIDS participants for the implementation of the Grant Agreement. Such an agreement shall not affect the parties' obligations to the Community and/or to one another arising from the Grant Agreement.
- **Deliverable review:** An evaluation procedure by one or more reviewers, which precedes the distribution of a deliverable (as defined in the Work plan) to the European Commission.
- **Quality assurance:** All the planned and systematic activities implemented to provide adequate confidence that an entity will fulfil requirements for quality.
- **Quality policy:** A set of principles on which quality assurance procedures are based.

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- **Risk:** Uncertainty that may have a significant impact on the execution or outcome of the project, and which effect may be negative – a *threat* risk - or positive – an *opportunity* risk.
- **Foreground:** Means the results, including information, whether or not they can be protected, which are generated by activities in the Project. Such results include rights related to copyright; design rights; patent rights; plant variety rights or similar forms of protection.
- **Background:** Means information which is held by participants prior to their accession to the Grant Agreement, as well as copyrights or other intellectual property rights pertaining to such information, the application for which has been filed before their accession to the Grant Agreement, and which is needed for carrying out the indirect action or for using the results of the indirect action.

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## 1. INTRODUCTION

Since centres have begun to recruit cases and controls, periodic summaries of data collection are being obtained. This document provides the status of data collected from MOBI-KIDS centres as of April 2012.


### 1.1. Summary of data (April 2012)

The numbers of cases and controls who have been identified and either interviewed or refused to participate by centre as of April 2012 are provided in Annex 1.

Currently, four of the fifteen countries have not yet begun data collection. One of these countries, New Zealand, received initial funding in February 2012 with a pending application for full funding. As such, the team has submitted to the New Zealand multi-region ethics committee (approval pending) after which they will begin contacting individual hospitals. Canada, India, and Australia expect to begin data collection within the next couple of months. Austria began data collection in May 2011 and had to halt in July 2011 due to changed ethics approvals legislation. They received a positive vote from the Medical University of Vienna ethics committee in May 2012 pending small changes; full approval is expected shortly.

For the countries who have recruited subjects, a total of 311 cases have been identified with 229 interviewed and 29 refusals, and a total of 552 potential controls have been identified with 332 interviewed and 152 refusals. The overall refusal rate (9,3%) of cases is lower than expected (at the onset we estimated an 80% participation rate). In Germany, however, 26,3% of cases did not participate. This is primarily due to two factors: 1) the doctors are in general very protective of their patients and will not approach them if they think the subject is too ill; and 2) the subjects are too ill and in treatment or are otherwise unable to answer questions. The overall refusal rate of controls is 27,5%, but this is declining as more control hospitals grant ethics approvals and more controls are identified closer to their surgery date (before returning to normal life).

It should be noted that the number of interviewed cases and controls has more than doubled since the previous progress report submitted in November 2011. Although the number of cases and controls is lower than expected, countries are gaining momentum rapidly as additional hospitals grant ethics approvals and the study infrastructure is set in place. With four additional countries (including Austria) expected to begin case ascertainment shortly, as well as New Zealand in the beginning phases, the rate of case (and control) ascertainment will only continue to increase. Please see the figures below for the cumulative cases and controls interviewed per month (among all centres).

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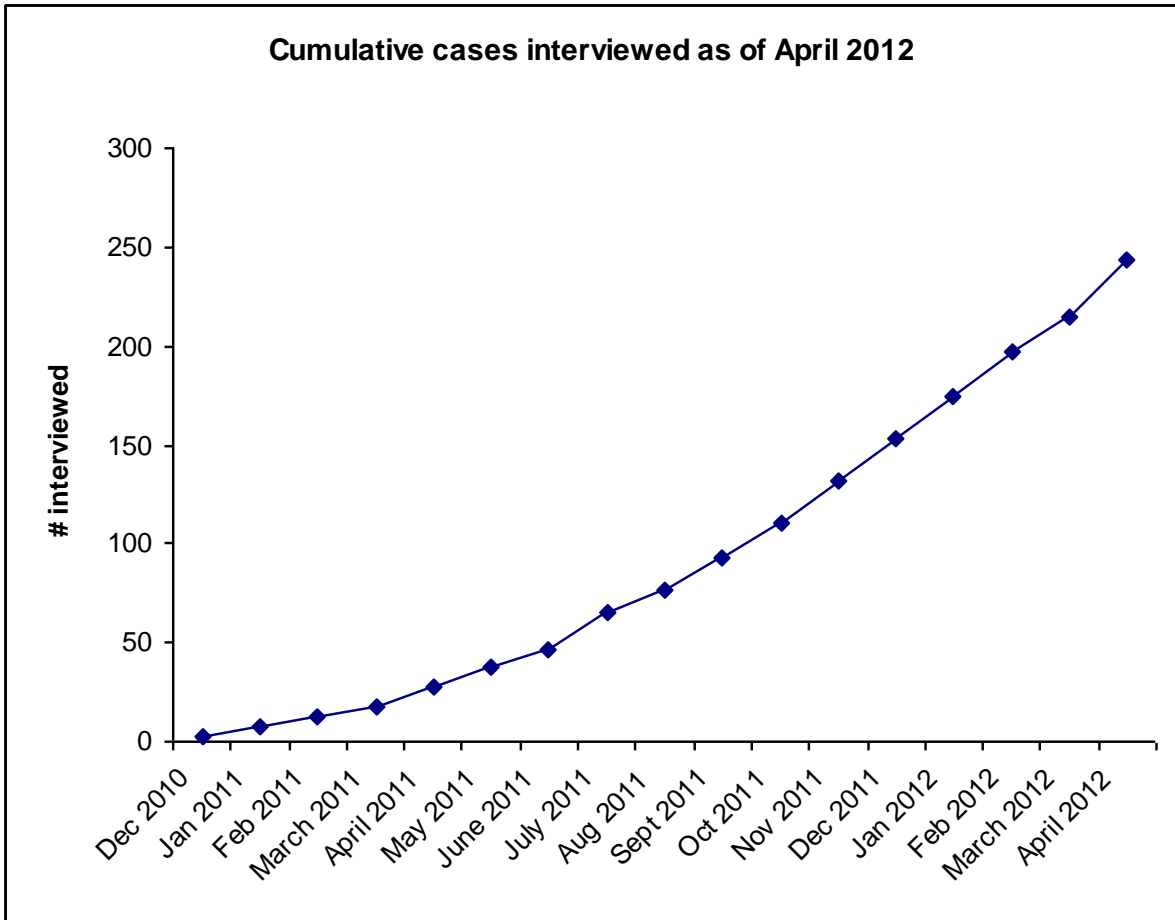



Figure 1: Mobi-Kids cumulative cases interviewed in all centres as of April 2012

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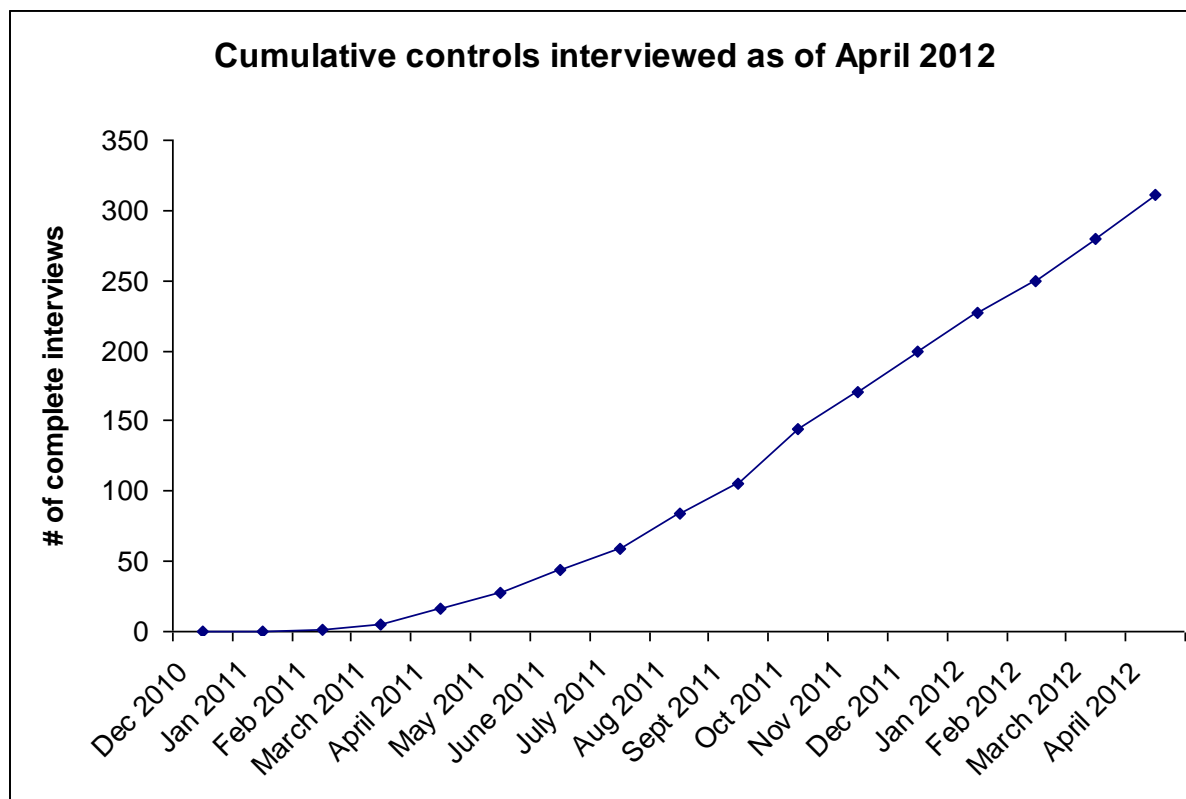



Figure 2: Mobi-Kids cumulative controls interviewed in all centres as of April 2012

The matched status of cases and controls by centre as of April 2012 is provided in Annex 2. Of the 229 interviewed cases, 123 (53,7%) have two matched, interviewed controls. An additional 50 cases (21,8%) have one matched, interviewed control. The remaining 56 cases (24,5%) do not yet have an interviewed control, but it should be emphasized that most of these cases (and most of the cases with only one control) are still in the time frame to be matched to a control. Finding matched controls has also become easier as more control hospitals agree to participate.

## 2. CONCLUSION

Data collection is underway in most centres. A future periodic summary will be submitted.


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## ANNEX-1

### MOBIKIDS - Summary Data Collection (April 2012)

| Country         | Partner/Institution | CASES (n°) |             |           | CONTROLS (n°) |             |            | Starting Date |
|-----------------|---------------------|------------|-------------|-----------|---------------|-------------|------------|---------------|
|                 |                     | Identified | Interviewed | Refused   | Identified    | Interviewed | Refused    |               |
| Australia       | MONASH              | N/A        | N/A         | N/A       | N/A           | N/A         | N/A        | 2012 July     |
| Austria         | MUV                 | 9          | 2           | 0         | 7             | 2           | 0          |               |
| Canada          | OTTAWA              | N/A        | N/A         | N/A       | N/A           | N/A         | N/A        | 2012 July     |
| France          | ARECEA              | 45         | 28          | 4         | 44            | 22          | 9          |               |
| Germany         | LMU                 | 38         | 26          | 10        | 27            | 14          | 10         |               |
| Greece          | UOA-SARG            | 35         | 31          | 0         | 62            | 59          | 3          |               |
| India           | TMH                 | N/A        | N/A         | N/A       | N/A           | N/A         | N/A        | 2012 June     |
| Israel          | GERTNER             | 48         | 33          | 7         | 125           | 55          | 43         |               |
| Italy           | UNITO               | 25         | 20          | 1         | 34            | 27          | 4          |               |
| Japan           | TWMU                | 11         | 8           | 2         | 67            | 36          | 25         |               |
| Korea           | DUCM                | 3          | 3           | 0         | 3             | 2           | 0          |               |
| New Zealand     | AUCKLANDUNI         | N/A        | N/A         | N/A       | N/A           | N/A         | N/A        | 2013 Jan      |
| Spain           | CREAL               | 81         | 63          | 4         | 174           | 107         | 57         |               |
| Taiwan          | NTU                 | 13         | 12          | 1         | 0             | 0           | 0          |               |
| The Netherlands | UU                  | 3          | 3           | 0         | 9             | 8           | 1          |               |
| <b>Total</b>    |                     | <b>311</b> | <b>229</b>  | <b>29</b> | <b>552</b>    | <b>332</b>  | <b>152</b> |               |

N/A is entered when the study centre has not begun data collection yet and therefore has no data to report.

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## ANNEX-2

### MOBI-KIDS - Summary Data Collection (April 2012) – Status of Matching

| Country         | Partner/Institution | Triplets<br>(1 case + 2 controls) | Pairs<br>(1 case + 1 control) | Singles<br>(1 case + 0 controls) |
|-----------------|---------------------|-----------------------------------|-------------------------------|----------------------------------|
| Australia       | MONASH              | N/A                               | N/A                           | N/A                              |
| Austria         | MUV                 | 0                                 | 2                             | 0                                |
| Canada          | OTTAWA              | N/A                               | N/A                           | N/A                              |
| France          | ARECEA              | 7                                 | 3                             | 18                               |
| Germany         | LMU                 | 3                                 | 11                            | 12                               |
| Greece          | UOA-SARG            | 24                                | 3                             | 4                                |
| India           | TMH                 | N/A                               | N/A                           | N/A                              |
| Israel          | GERTNER             | 22                                | 11                            | 0                                |
| Italy           | UNITO               | 12                                | 3                             | 5                                |
| Japan           | TWMU                | 7                                 | 1                             | 0                                |
| Korea           | DUCM                | 0                                 | 2                             | 1                                |
| New Zealand     | AUCKLANDUNI         | N/A                               | N/A                           | N/A                              |
| Spain           | CREAL               | 45                                | 14                            | 4                                |
| Taiwan          | NTU                 | 0                                 | 0                             | 12                               |
| The Netherlands | UU                  | 3                                 | 0                             | 0                                |
| <b>Total</b>    |                     | <b>123</b>                        | <b>50</b>                     | <b>56</b>                        |