

Semi-annual Progress Report

(Narrative report (4-6 pages) focusing on progress in project implementation, major achievements, assessment of achievement of project objective, obstacles encountered, solutions found/proposed and need for adjustment.)

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| Project title | Preventing Diabetes and Improving Treatment Provided to Diabetics in Bénin |
| Project number | WDF09-464 |
| Reporting period | 2 ^o semester 2010 |
| Prepared by | Dr. Jacqueline Dicquemare |
| Date of submission | 31 January 2011 |

1. Progress for the past 6 months vis-à-vis project implementation plan

(Where applicable, please include numerical information under the "comments" column, e.g. number of clinics established, number of people/patients reached, camps and education sessions held, awareness activities conducted etc. If an activity has not been accomplished as planned, please indicate reason. Add more rows if needed.)

| | Activity as per milestone goals in PPA | Status (done/not done) | Results, Impact & Comments | |
|-------------|---|---------------------------|--|---|
| | | | 6 months reporting period Quantitative & qualitative reporting | Accumulated quantitative results to date |
| Milestone 1 | 1. Equipment purchased | Done yes | From MicaDO From MicaDO15 Glycemic Readers* 4 computers* 3 Regulators YOUR* 3 Inverters* 2 USB keys* 3 Offices(Desks), 12 chairs* 1 cupboard* 1 DVD Reader* 1 Refrigerator (insulin)* Material minor surgery* Material asepsis* 2 growths-syringes* 50 electric syringesFrom CHDZOU / HILLS* Septation premises* 2 washbasins* Outside toilet* Signboards | From MicaDO15 Glycemic Readers* 4 computers* 3 Regulators YOUR* 3 Inverters* 2 USB keys* 3 Offices(Desks), 12 chairs* 1 cupboard* 1 DVD Reader* 1 Refrigerator (insulin)* Material minor surgery* Material asepsis* 2 growths-syringes* 50 electric syringesFrom CHDZOU / HILLS* Septation premises* 2 washbasins* Outside toilet* Signboards |
| | 2. Educational material produced | yes | 25 posters; 300 nutritional platelets(leaflets); 50 files5 DVD Animation Education | |
| | 3. 2 specialised diabetes referral centres refurbished and operational | No | 1: Reference service in diabetology of the Departmental Hospital of Zou Colines is created and operational in Bohicon-Abomey * 2 ^o planned was at the Hospital of Zone of Abomey Calavi (30 km | • 2 ^o service is planned in the CHD of Parakou, its implementation will be made in the course of 2 ^o |

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| 4. | 1,000 consultations conducted | No | 680 | |
| 5. | 600 new patients diagnosed with diabetes | No | 200 | |
| 6. | Total training hours to 4 doctors, 12 nurses, 20 health care providers and 4 administrative staff undertaken: 150 | yes | To : * 2 doctors * 22 nurses * 2 peer * 3 administrative staff 550 hours | |
| 7. | 10 sensibilisation sessions conducted targeting the general public | yes | * 6 Radio interviews * 4 Television * 1 Day for information and detection Journée Mondiale de la Santé le 7 avril | |
| 8. | Other relevant activities | yes | Local bank account opened to the Diamond Bank in Bohicon* Purchases of drugs at very low prices in the Buying group of the Ministry of Health among which 144.000 units of metformine and 37.000 units of glibenclamide* Purchase of 10.000 clinistix and 10.000 strips accucheck; 2.000 albustix* Support to creation of the Association of the Beninese diabetics " chaired by Lambert AIDJI * Contextual analysis: visits ² in the center of Davougon (father Bernard): numerous diabetics in consultation made by the nurses favorable to a collaboration° 3 in the center of Zagnanando (sister Juia): numerous consultations and surgical activities for diabetics (amputation) ; no wished collaboration * Qualitative and comparative analysis of 150 new patients * Activities of screening in the peripheral health centers:2.7 % of diabetics detected on 300 screening tests in not selected population | |

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| Milestone 2 | 1. 800 consultations conducted, accumulated 1,800 consultations | YES | Conducted : 900 Accumulated: 1580 | |
| | 2. 20% of the patients (360 patients in total) treated for free | yes | 38% | |
| | 3. 600 new patients diagnosed with diabetes, accumulated 1,200 patients | No | 350 Accumulated: 550 | |
| | 4. Total training hours to 4 doctors, 12 nurses, 20 health care providers and 4 administrative staff undertaken: 300 | Yes | 500 hours | |
| | 5. 10 sensibilisation sessions conducted targeting the general public, accumulated 20 sessions | Yes | 15 sensibilisation sessions and 3 areas for diabetes day (14 of November); accumulated 25 | |
| | 6. Supervisory visit conducted by MicaDO | Yes | 2 missions by president and 2 missions by coordinator | |
| | 7. Other relevant activities | Yes | <p>*The agreements with Ministry of health, Departmental Direction of Health of Borgou Alibori Province and Direction of Provincial Reference Hospital (Parakou) for implementation of the Diabetes Unity into the Hospital are signed We began the trainings for the responsible medical doctor and nurses The consultation of diabetic patients began in november but the rehabilitation of the premises intended for the Unity is not totally finished (the expenditures for this are in charge of the Hospital) * We buy the furnitures and equipment for the Unity;</p> <p>* In the CHD Zou Collines we gave the DCA 2000 , laboratory equipment for dosage of glycated hemoglobin and its reagents; we give electrocardiographie and vascular doppler We give also 1500 unities of antihypertensive drugs to test the efficacy and compare with drugs bought in Benin</p> | |
| Milestone 3 | 1. 1,200 consultations conducted, accumulated 3,000 consultations | | | |
| | 2. 800 new patients diagnosed with diabetes, accumulated 2,000 patients | | | |
| | 3. Total training hours to 4 doctors, 12 nurses, 20 health care providers | | | |

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| | and 4 administrative staff undertaken: 450 | | | |
| | 4. 10 sensibilisation sessions conducted targeting the general public, accumulated 30 sessions | | | |
| | 5. 20 civil society members trained to spread awareness | | | |
| | 6. Other relevant activities | | | |
| Milestone 4 | 1. 2,000 consultations conducted, accumulated 5,000 consultations | | | |
| | 2. 20% of the patients (1000 patients in total) treated for free | | | |
| | 3. 800 new patients diagnosed with diabetes, accumulated 2,800 patients | | | |
| | 4. Total training hours to 4 doctors, 12 nurses, 20 health care providers and 4 administrative staff undertaken: 600 | | | |
| | 5. 10 sensibilisation sessions conducted targeting the general public, accumulated 40 sessions | | | |
| | 6. Supervisory visit conducted by MicaDO, accumulated 2 visits | | | |
| | 7. Other relevant activities | | | |
| Milestone 5 | 1. 1,500 consultations conducted, accumulated 6,500 consultations | | | |
| | 2. 1,200 new patients diagnosed with diabetes, accumulated 4,000 patients | | | |
| | 3. Total training hours to 4 doctors, 12 nurses, 20 health care providers and 4 administrative staff undertaken: 750 | | | |
| | 4. 10 sensibilisation sessions conducted targeting the general public, accumulated 50 sessions | | | |
| | 5. Other relevant activities | | | |
| Milestone 6 | 1. 1,500 consultations conducted, accumulated 8,000 consultations | | | |
| | 2. 20% of the patients (1600 patients in total) treated for free | | | |

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| 3. | 1,000 new patients diagnosed with diabetes, accumulated 5,000 patients | | | |
| 4. | 10 sensibilisation sessions targeted at the general public conducted, accumulated 60 sessions | | | |
| 5. | Total training hours to 4 doctors, 12 nurses, 20 health care providers and 4 administrative staff undertaken: 900 | | | |
| 6. | Supervisory visit and evaluation conducted by MicaDO, accumulated 3 visits | | | |
| 7. | Other relevant activities | | | |

2. Accumulated project results on specific WDF indicators

(WDF accumulates and communicates about the achievements of WDF funded projects. To assist us in these efforts, *please insert quantitative numbers for your project where relevant. Some of the indicators may be overlapping with the project results above. We apologise for the inconvenience this may cause.*)

| Focus area | Specific WDF Indicators | Accumulated Number | Comments – if any |
|----------------|---|--------------------|---|
| Improving care | Number of clinics established or strengthened | 2 | 1° in CHDZou of Abomey- Bohicon 2° in CHD Borgou in Parakou |
| | Number of patients treated through established clinics | 550 | Each patient has a card including each consultation, the complications if any, the following and treatments For patient with diabetic foot we can give him an appropriated shoe, this shoe is made locally . The local cobbler copy the give orthopaedic shoe for avoiding support on the injure The patients with more of 5 years with diabetes have a fundus exam and can to go in Lome for photocoagulation laser if any |
| | Doctors trained | 2 | |
| | Nurses trained | 17 | |
| | Paramedics, educators and others trained – broadly understood | 10 | |

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| Awareness and screening | Number of awareness camps (awareness only) | 15 | |
| | Number of screening camps (with or without awareness activities) | 5 | |
| | Number of people reached through awareness & screening camps | 10.000 | awareness camps and local TV and local Radio |
| | Number of people screened for diabetes | 6000 | |
| | Number of people detected with diabetes | 500 | |

NB.

Before entering comments below in item 3 to 10, please ensure to delete text from previous reporting period.

3. Project management's assessment of the past 6 months' project progress

(Include continued relevance of project objective(s) and design, appropriateness and sufficiency of planned activities to achieve objective(s) and present status in achieving the objective(s).)

At CHD Zou/collines of Abomey and Bohicon the number of attended patients was correctly increasing (more of 200 consultations during October), but unfortunately, until November, all the health hospital workers of the country go on strike; they work only 2 days/week. So the number of patients is decreasing now.

However the project is in according to the needs , more of 75% of the patients come back for following Medical training hours were distributed by specialised French doctors of MicaDO:

- * Better care and good practice for diabetic people: Dr.J.Dicquemare
- * Various complications and their treatments: Dr.M.Mattout
- * Nutrition knowledge and studies of local foods: Dr.J.de la Tullaye
- * Cardiology and vascular diseases: Dr.C.Thuan
- * Hygiene and detection and prevention for nurses and paramedical workers: Y.Blavignac, D.Chac, F.Costa, E.Souchon

Medical Doctor at Unity of Zou/collines hospital (Dr.Aglin) and the staff can make HbA1c rates, electrocardiograms and vascular doppler

In december : 20 HbA1c controls; 20 ECG and doppler controls

The fundus examens are made at the ophtalmology unity of CHD hospital ; The patients with proliferativ retinopathy are reffered at specialised departments of Lome Hospital(Togo) for photocoagulation laser ; the cost is , with the travel, 60.000 Fcfa.

After better knowledge about the particularities of african people with high blood pressure we have better results ; now the patients which is resistant to treatment decrease at 35%

The institute of pharmacovigilance which realized the controls of Beninese drugs concluded: analyzed drugs have a dosage a little more low than that announced of the order of 70 %

The agreements with Ministry of Health, Departmental Direction of Health and Hospital Direction of Parakou , for the implementation of Diabetes Unity at Borgou Alibori Hospital are signed.

We buy all the furniture and equipment and consumibles for the activities and we began the training for medical doctor and nurses; but it is same in Parakou , the long strike of personal do not permit to achieve the rehabilitation of the intended area .

The population of Abomey, Bohicon and Cotonou received awareness and informations during the Diabetes Day

We help and support 3 local associations working for diabetes

4. Major achievements

The major achievements concern :

- * The agreements with authorities
- * The medical and paramedical training
- * The awareness and information
- * Furniture and equipments for the two Diabetes Unities in two hospitals covering the center provinces and the north provinces
- * 12 health centres around the cities of Abomey and Bohicon are included in the activities for detection, awareness and information , they will refer the detected patients at the referencial Diabetes Unity of CHD Zou

5. Constraints encountered to project implementation, if any

The bigger constraint is now the strike of all hospital personal : the activities cannot progress; the hospital financial incomes are decreasing ; the population cannot have confidence in public sector and go to private or non profit sector

In the country it is difficult buy many equipments and consumibles , it is necessary to buy in other countries (Togo, Niger or Europa)

The relative poorness of the population is increasing because many basic foods have an increasing cost

The diabetic people suffer also from very high blood pressure , more of 50% of them.and we see very frequently many patient resist the antihypertensive drugs , so it is necessary prescribe drug associations and high dosage , increasing the mensual cost of prescription

We have to make quality controls in France for the local drugs. However we buy these drugs at the Ministry of Health

The area of Diabetes Unity in CHD Zou is now too little for the number of consultations and for use correctly the equipments : glycated hemoglobin material, Electrocradiograph and vascular doppler

The staff have bad informatic experience and the computers are been destroyed by virus , so many time and many diffculties for receive the files.

The Parakou Hospital cannot end up doing the rehabilitation of area intended at Diabetes Unity needing money.

6. Solutions found/proposed to constraints encountered, if any

We have to add a financial participation for the rehabilitation of the area "Diabetes Unity" in Parakou hospital. In accordance to our agreement this cost was in charge of Hospital direction, but it cannot totally.

We have to add another financial participation helping the Zou Hospital Direction to build a bigger and appropriated area "Diabetes Unity"

During the training we include the necessary excellence, good care practices, for improving the confidence and stop the negative judgement of public sector

We inform the authorities (Ministry, Directions) about the various problems and find the better strategy in the futur

We meet with the managers of non profit sector for try collaboration and complementarity.

We buy in France the materiel and equipment (HbA1c and reagents, ECG,Doppler)

The MicaDO MD come with this materiel during each travel

We come back with some units of beninese antihypertensive drugs for quality study at Pharmacovigilance Institut of University of Montpellier

SOS Diabète Bénin created in Cotonou carry out a web site . We give it many documentation, pictures and pedagogic tools for this.

The Faculty of Health of Parakou University forecaste creating a Diabetes and Nutrition Diploma with our teaching collaboration

7. Need for adjustment, if any

(If project activities and plans should be adjusted, please state it here, including justification.)

In the new elaborated budget and reallocations for 2011 (ANNEX) we explain that the expenditures for treatment Metformine are very lower than expected , it is same for the expenditures according to "diabetic foot" and "ophtalmology". The carried out economies will amount to 20.800 Euros

So without modification of global previous budget expenditures and resources we would like, if this new budget 2011 have WDF agreement, to transfer this expenditures for to enlarge and fit out the "Diabetes Unities " in CHD Zou and in CHD Parakou: 10.400 for each.

So the activities will can to develop quickly in the two referential diabetes departments

8. Opportunities identified, if any

(State if new opportunities have arisen. Describe the opportunity(ies) including how it feeds into the present project. Include recommendation as to how it may be covered/included into the project.)

IT is necessary discuss with the University responsables in Parakou for the implementation of the diabetes teaching at young medical doctors ; we have to make a proposal with the various modules of teaching about diabetes (theoretical and practical training) : how many hours each, and how to make the knowledge control and to validate it . This project of Diabetes DU in the Faculty of Health of Parakou would be a very good way for sustainability of our project and this impact .

9. Implementation plan for the next 6 months

(List key activities planned for the next 6 months based on the project implementation plan and the Milestone targets set in the Project Partnership Agreement.)

- * Continuous training for doctors, nurses and workers
- * To include more rural and suburban health centres in Abomey, Bohicon and Parakou , to train the workers for knowledge of diabetes, detection, awareness and prevention of risks
- * To participate at other TV and Radio interviews with the local trained doctors
- * To install into the Diabetes Unity of Parakou the DVD animation translated in local idioma and video lector for patients and family groups
- * To create into the two referential hospitals medical libraries
- * To carry out with University of Parakou the agreement for Diabetology Diploma for starting during the next semester, and also teaching of nutrition in the Faculty for the students of 5° year
- * To help for achievement of the Diabetes Unity in PARAKOU Hospital
- * To find modalities of co-financing with the Ministry of Health for a new and largest Diabetes Unity in CHD Zou/Collines
- *:The quotation for this is asked
- *If MicaDO give 10.000 euro and If the Ministry give same support, it shall be possible
- *In Parakou the hospital started the rehabilitation of Unity but it was impossible to continue (no money) so we have to increase our participation
- So it is necessary to change some lines of budget
- The expenditures in previsional budget for diabetic foot , ophthalmology and metformine was too much , because we can by in Benin the drugs with very low cost and have fundus examination for also very low cost
- If
- *Equipment for « diabetic foot » decrease from 10.000 at 4.000 €
- *Equipment for ophthalmology decrease from 10.000 at 2.000 €
- *Treatments- Metformine decrease from 10.000 at 3.200 €
- With the same budget and always in the same equipment line we have 10.400 € for Unity of Parakou and 10.400 € for Unity of Zou

10. Other relevant aspects/details

(Include media coverage for the project, publications, key lessons learned, and other aspects deemed important by the project.)

cf ANNEX : "Pictures of diabetes day 14 november Cotonou with the Association SOS Diabete Bénin"

The better key lessons are :

- * We cannot work with the same rate than in occidental countries
 - * We have to consider the priorities different from our partners, the frequent discords between the administrative personnel and the medical staff, the social and politic problems which paralyze many activities
 - *The commitments taken by our partners are neglected. The next elections in March monopolize for several months the persons in charge
 - *The medical staff in Abomey and in Parakou, on the ever hand is perfectly cooperating and have high motivation , we make together good work for the patients
- We can realize the expected results and the perennisation of the project but it is possible that it is longer than planned

WDF Secretariat comments to the report:

(Internal comments to be inserted upon review of report. Include necessary action, if any)