

University Hospital Carl Gustav Carus Dresden



Expert testimony: Translation of major trial evidence into practice across Europe

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17.5.2011 in Manchester



We know that the prevention of diabetes mellitus is effective, feasible, evaluated but difficult, time consuming, challenging

How to get it to practice



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We need

Plan Concept Action



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Plan

Development of an Global Action Plan -Diabetes Prevention

The action plan should identify essential activities and available resources for diabetes prevention and spell out the responsibilities of each stakeholder and their involvement. In addition, the plan should recommend and outline action steps specific to each involved cohort - (e.g. families, friends, health care providers, the media, health insurance providers, employers, researchers, professional educators, ethnic and cultural groups to name but a few).



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Concept

3 Steps of a Diabetes prevention program

Detection of increased diabetes risk

Timely limited intervention to prevent diabetes

Continuous intervention and quality management



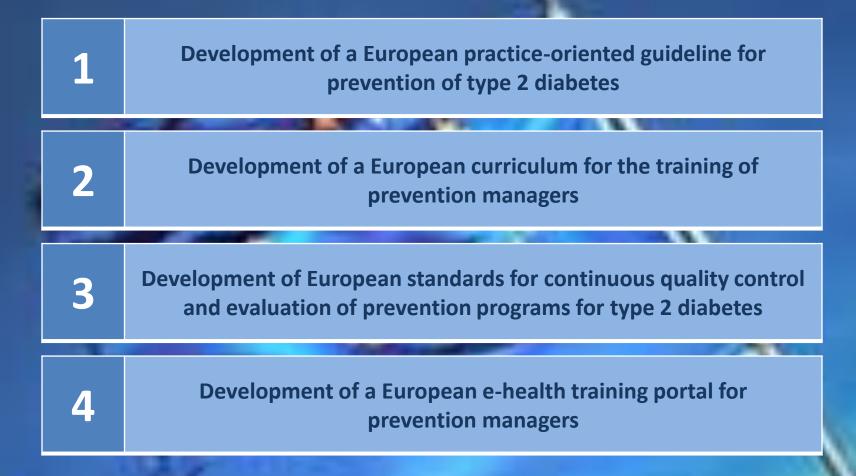
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Developing a prevention strategy

- find people where they are setting approach
- focus on the individual empowerment
- involve regular contact with individuals with prediabetes
- recruit educated lifestyle managers
- continuously evaluate the success of prevention strategies
- use screening tools that are applicable in a population setting
- include quality management prevention management

Specific objectives



=> European standards applicable in all member states will help to reduce inequalities in health

The IMAGE project – Partners involved

Thank you very much







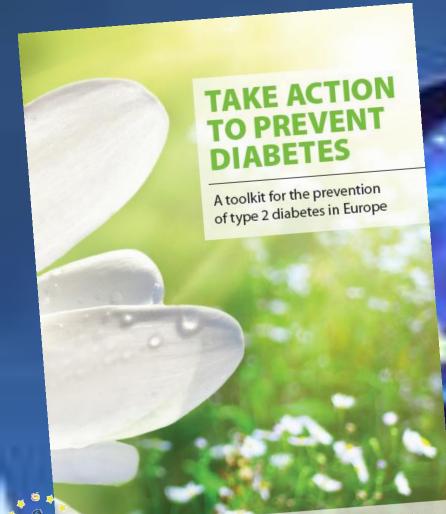
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Take Action to prevent Diabetes

A toolkit for the prevention of type 2 diabetes 💦 🗳 🐛

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Improving Diabetes Prevention



Take Action to Prevent Diabetes – The IMAGE Toolkit for the Prevention of Type 2 Diabetes in Europe

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Bibliography

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- B. Galinetti, K. Gotz, E. Gotz, S. Dacesarec, Y. Dimiterencorectory, P. Obrogenic, J. Barn, A. Ho, Hellon, M. Haller, C. Galindi Andre, A. Glin-Januarenka, M. Goldhacht, J. L. Comer, C. J. Creaves, M. Hall, U. Hande, H. Haune, J. Helb et, N. Hermanns, L. Hernehugh, C. Habe, U. Höhmer, J. Hutturen, A. Joric, Z. Kamenov, S. Karadetiz, N. Kabilamboo, A. Hermanns, L. Hernehugh, C. Habe, U. Höhmer, J. Hutturen, A. Joric, Z. Kamenov, S. Karadetiz, N. Kabilamboo, A. Hermanns, L. Hernehugh, C. Habe, G. Höger, D. Höhmer, J. Hutturen, A. Joric, Z. Kamenov, S. Karadetiz, N. Kabilamboo, A. Kabilamboo, A. Karadetiz, N. Kabilamboo, A. Hermanns, L. Hernehugh, C. Habe, G. Höhmer, J. Hutturen, A. Joric, Z. Kamenov, S. Karadetiz, N. Kabilamboo, A. Kabilamboo, A

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Abbreviations

DPS:

IGT:

OGTT:

T2DM:

Executive Summary

When we ask people what they value most, health is usually top of the list. While effective care is available for many chronic diseases, the fact remains that for the patient, the tax payer and the whole of society: Prevention is Better

Diabetes and its complications are a serious threat to the survival and well-being of an increasing number of people. It is predicted that one in ten Europeans aged 20-79 will have developed diabetes by 2030. Once a disease of old age, diabetes is now common among adults of all ages and is beginning to affect adolescents and even children. Diabetes accounts for up to 18% of total healthcare expenditure in Europe.

The Good News is That Diabetes is Preventable. Compelling evidence shows that the onset of diabetes can be prevented or delayed greatly in individuals at high risk (people with impaired glucose regulation). Clinical research has shown a reduction in risk of developing diabetes of over 50% following relatively modest changes in lifestyle that include adopting a healthy diet, increasing physi-

Finnish Diabetes Prevention Study

FINDRISC: Finnish Diabetes Risk Score

Impaired fasting glucose

Impaired glucose tolerance

Oral glucose tolerance test

Type 2 diabetes mellitus

cal activity, and maintaining a healthy body weight. These results have since been reproduced

in real-world prevention programmes. Even a delay of a few years in the progression to diabetes is expected to reduce diabetes-related complications, such as heart, kidney and eye disease and, consequently, to reduce the cost to society.

Guidelines S37

A comprehensive approach to diabetes prevention should combine population based primary prevention with programmes targeted at those who are at high risk. This approach should take account of the local circumstances and diversity within modern society (e.g. social inequalities). The challenge goes beyond the healthcare system. We need to encourage collaboration across many different sectors: education providers, non-governmental organisations, the food industry, the media, urban planners and politicians all have a very important role to play.

Small Changes in Lifestyle Will Bring Big Changes in Health, Through Joint Efforts, More People Will be Reached. The Time to Act is Now.

Why is it Time to Act?

- The alarming epidemic
- In Europe, around 55 million adults have diabe-
- By 2030, this figure is estimated to rise to 66



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General aim

- To provide a **credible**, **simplistic**, **concise**, **clear**, **pragmatic**, **accessible** document with a **positive message** about health promotion
- Grounded on the IMAGE evidence-based guideline and training curriculum for prevention managers and should preferably be used alongside them
- Target group
 - Politicians / policy makers (esp. executive summary)
 - All **service providers** in the field of health care and promotion
 - Background / education in health care basic knowledge
 - Information for "clients" will be included within the document and will be provided to them by the person delivering the intervention.



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What is necessary

SMART Goals F.I.T.T. Principles EAT CLEVER strategy







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Toolkit - Contents

- Executive summary ("the problem&solution in a nutshell")
- Why is it time to act?
 - Facts and Figures; Risk factors; Large number of unknown cases; Complications through late diagnosis;
 Costs for health care system and the society; Prevention is possible: the evidence; Economic and social benefits of diabetes prevention

• How can I make a difference?

- Prevention as joint effort; Why and how to involve societal framework partners; Practical tips for societal support; How to build up multidisciplinary prevention team; Practical tips for networking
- How to budget and finance a prevention programme
 - Realistic budget; Possible sources of income
- How to identify people at risk
 - Diabetes risk factors; Risk assessment; Care pathway for healthcare provider; Strategy and practical tips for encouraging participation in intervention activities
- How to change behaviour
 - Elements and targets of effective lifestyle intervention programmes; Supporting behaviour change;
 Effective communication



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• Physical activity to prevent diabetes

- Why to increase physical activity; How to encourage to increase physical activity
- The **FITT** principle for training routine:
 - Frequency Intensity Time Type

Nutrition & dietary guidance to prevent diabetes

- Long-term dietary goals (in nutrient and food intake level)
- The EAT CLEVER principle for counselors
 - Estimation of the dietary pattern, Aims in the long and short run, Tools, guidance, and support, Composition of the diet, Lifestyle for the whole life, Energy, Variety, Evaluation, Risks

Other behaviours to consider

- Stress and depression; Smoking; Sleeping patterns
- Evaluation / quality assurance
 - Quality criteria; Risks and adverse effects

• Join forces to make a difference! ("positive mission statement"):



HOW TO IDENTIFY = PEOPLE AT RISK



IMAGE Toolkit



SCREENING SCORES FOR PREVALENT T2D

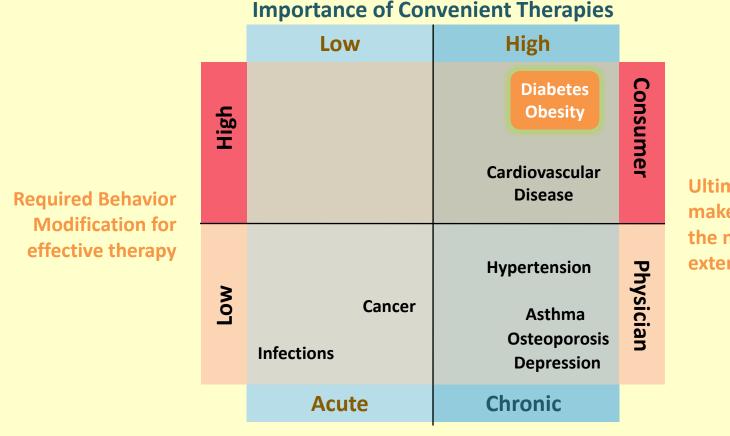
| SCORE AND SOURCE | PREDICTIVE VARIABLES |
|---|---|
| The Dutch score Diabetes Care 22:213; 1999 | Age, sex, BMI, presence of obesity, use of antihypertensive medication and family history of diabetes, physical activity |
| The Cambridge risk score Diabetic medicine 23:996; 2006 | Age, sex, BMI, family history of diabetes, use of antihypertensive or steroid medication, smoking |
| The Danish risk score Diabetes Care 27:727-33; 2004 | Age, sex, BMI, family history of diabetes, known hypertension, physical activity |
| The Finnish diabetes risk score FINDRISC www.diabetes.fi/english/ risktest | Age, BMI, waist circumference, use of antihypertensive therapy, history of high blood glucose, physical activity, consumption of fruit, vegetables and berries, family history of diabetes |
| FindRISK Germany Horm Metab Res. 2009; 41:98 | Age, BMI, waist circumference, use of blood pressure medication, history of high blood glucose |
| Australian risk score AUSDRISK www.ausdrisk.com | Age, sex, ethnicity, family history of diabetes, history of high blood glucose, use of anti-hypertensive medication, current smoking status, consumption of vegetables or fruit, physical activity and waist circumference |
| The German diabetes risk score www.dife.de | Age, waist circumference, height, history of hypertension, physical activity, smoking, consumption of red meat, whole- grain bread, coffee, and alcohol |
| The ADA risk score Diabetes Care 18:382; 1995 | Age, sex, delivery of macrosomic infant, race, education, obesity, sedentary lifestyle, family history of diabetes |



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How to change behavior ?



Nature of Illness

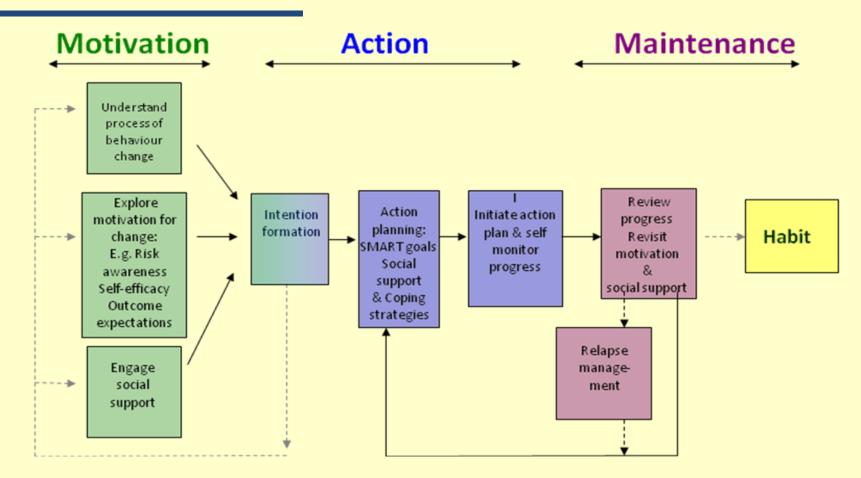
Ultimate decisionmaker concerning the nature and extent of therapy



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Behaviour Change Model (Greaves et al, 2011)



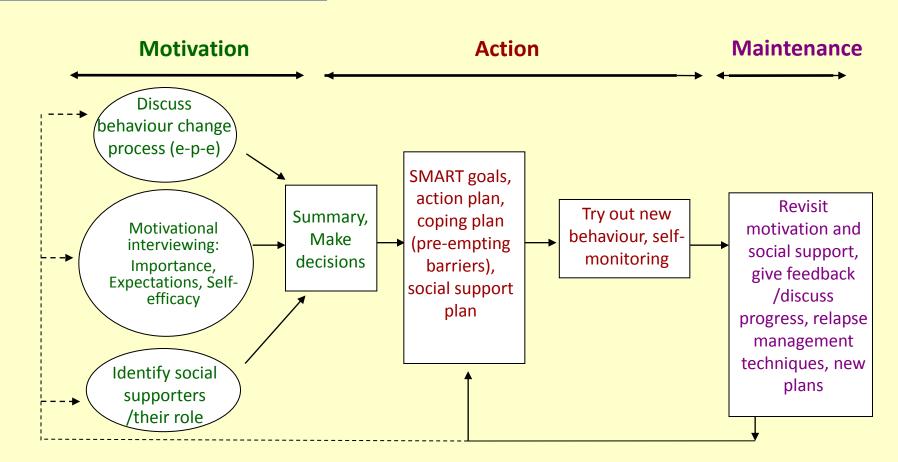
Greaves CJ et al. BMC Public Health. 2011 Feb 18;11(1):119.



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Behaviour Change Techniques (Greaves et al, 2011)



Greaves CJ et al. BMC Public Health. 2011 Feb 18;11(1):119.



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TAKE ACTION TO PREVENT

DIABETES. YOU <u>CAN</u> DO IT NOW!



mage

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Prevention Practice

 Standard technical handbook presenting different strategies for the prevention of diabetes realized in a practice setting worldwide

- summarizing experiences and future plans over the world
- issued for the WCPD

Diabetes Prevention in Practice



Editors: Peter Schwarz Prasuna Reddy Colin Greaves James Dunbar Jaqueline Schwarz

Dresden WCPD 2010



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Content of Prevention in Practice

- 1. Diabetes Prevention urgent need in practice
- 2. Diabetes Prevention in Practice: the global panorama
- 3. The short history of diabetes prevention with lifestyle intervention
- 4. Supporting behaviour change for diabetes prevention
- 5. Implementation of prevention of type 2 diabetes Experiences from Finland
- 6. Scaling up type 2 diabetes prevention programs. National and State interventions in Australia
- 7. Training facilitators of group-based diabetes prevention programs: recommendations from a public health intervention in Australia
- 8. Scaling Up Type 2 Diabetes Prevention Programs for High Risk Persons: Progress and Challenges in the United States
- 9. Implementation of the Saxon Diabetes Prevention Program in Germany
- 10. The Learner Becomes the Teacher: A Community-Based Diabetes Prevention Training Programme for First Nations Health Workers in Northern Canada
- 11. Lets Beat Diabetes Community Partnerships in Action New Zealand
- 12. Early detection and prevention of type 2 diabetes: National Programme Serbia
- 13. Community based diabetes prevention in Austria
- 14. Feasibility of Implementing the first community-based Lifestyle Intervention Programme to Prevent Type 2 Diabetes in Greece
- 15. Screening an Prevention of Type 2 Diabetes using Lifestyle Modifications in Spain DE-PLAN Project Spain
- 16. First Diabetes Prevention Program in Bulgaria
- 17. DE-PLAN Project: diabetes prevention in Carpi e Pantelleria, Italy
- 18. The HUNT-DE-PLAN Study of Nord-Trøndelag, Norway
- 19. Walking Away from Type 2 Diabetes: development of a diabetes prevention programme for implementation within England
- 20. Towards the translation of research evidence to service provision: experience from North East England, UK
- 21. Diabetes-Free Bangkok
- 22. Prevention of Diabetes in South Asians
- 23. A cognitive behavioural programme aimed at lifestyle changes in people at high risk of cardiovascular diseases and type 2 diabetes in the Nederlands
- 24. Medical Prevention of Type 2 Diabetes Rationale and Practice





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| Program | Aim | National Policy | Setting | Target population | Intervention manager | Intervention program | Outcome evaluation | Quality management | Funding | Ref. |
|--|--|---|---|---|---|--|---|---|---|--------------|
| FIND2D Finland | Primary diabetes prevention | Yes – National Diabetes Plan | PHC, decentralized, community | person at risk FINDRISK >15 | Diabetes nurses | 1-3 sessions | Waist circ. | None | National programme | [14, 33] |
| GOAL-LIT Finland | diabetes prevention + healthy ageing | Yes – National Diabetes Plan | PHC, decentralized, occupational medicine | person at risk FINDRISK >12 | occupational nurses | 5 sessions and 1 booster session | anthr., biomarker, behaviour by physician | None | Included in occupational service | [34] |
| PLAN4WARD, USA | Primary diabetes prevention | National Coordinating Center in Development | YMCA | ADA risk score | nonspecialist staff at YMCA | 6-month, 16-session curriculum, then monthly maintenance sessions | anthr., HbA1c, lipids | Centralized instructor training; Peer-based session fidelity checklists | National Institutes of Health | [11, 35, 36] |
| Reset your life Australia | People | Council of Australian Government | PHC, decentralized, | person aged 40-49 at risk AUSDRISK >12 | Health professional | 5 +1 sessions, Intervention facilitator | Waist and weight | None | Australian government | [14] |
| LIFE! Taking action on diabetes. Australia | Primary diabetes prevention | State Government of Victoria | PHC, decentralized, community | person at risk AUSDRISK >12 | Health professional | 5 +1 sessions, Intervention facilitator | anthr., biomarker, behaviour | Yes at facilitator and program levels | Free for most participants aged 50 or over | [14] |
| SDPP**, Australia | Primary diabetes prevention | NSW Department of Health | PHC, decentralized, medical GP based | person aged 50-65 years at risk AUSDRISK >15 | Health professional | 5 +1 sessions, GP and lifestyle officer | anthr., biomarker, behaviour | None | NSW Department of Health | [14] |
| SDPP*, Germany | Primary diabetes prevention | Saxony, gesundheitsziele | Public Health, paramedical, decentralized, community | person at risk FINDRISK >10 | prevention manager, different professions | Structured programme 8 sessions, telephone and email support and annual follow up | BP, waist, anthr., parallel study on oGTT | Blood pressure and Waist circ. | Local health insurances reimburses prevention manager | [10, 14] |
| DIY Canada | Diabetes prevention and management | Local health Policy | Community, aborigines | risk factors evaluation | health workers | 3 day agenda + manual | None | None | Government + private | [14] |
| Walking Away from Type 2 Diabetes; UK | Primary diabetes prevention | NHS Health Checks Programme | Primary care | High risk person identified using the Leicester Risk Score | Registered or non- registered healthcare professional | 3.5-hour structured education programme followed by annual maintenance programme. Telephone contact every 6 months | 1st = physical activity 2nd = OGTT, progression to diabetes, lipids and anthr. variables | All educators are trained and quality assured to ensure fidelity to person- centred philosophy and content | CLAHRC, National Institute for Health Research | [37, 38] |
| Let's Prevent Diabetes; UK | Primary diabetes prevention | NHS Health Checks Programme | Primary care | Leicester Risk Score and confirmed with OGTT | Registered healthcare professional | 6-hour structured education programme followed by annual maintenance programme. Telephone contact every 3 months | 1st = progression to type 2 diabetes using OGTT 2nd = physical activity, diet, lipids and anthr. variables | All educators are trained and quality assured to ensure fidelity to person- centred philosophy and content | National Institute for Health Research | [14] |
| LBD New Zealand | Diabetes prevention and improved management of disease | National Strategy Healthy Eating Healthy Action (HEHA) | Community, | Maori, Pacific, and South Asian with risk factors identification | At all levels from community people to health professionals | A range of different interventions are offered | waist and weight | Yes | Regional funding from Health Budget and other partner organisations | [14] |
| DE-PLAN, Greece | Primary diabetes prevention | | PHC, occupational | person at risk FINDRISK >12 | prevention manager, nurse | 6 sessions, by prevention manager | BP, waist, anthr., lipids, parallel study on oGTT | Parallel to intervention | Public health + private | [16] |

Schwarz PE, Med Clin North Am. 2011 Mar;95(2):397-407.





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Schwarz PE, Med Clin North Am. 2011 Mar;95(2):397-407.



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| ProgrammeDrop out rateOutcomes achievedReferenceLifeT officing action on diabetesStill being evaluatedStill being evaluated3Sydney DiabetesStill being evaluatedStill being evaluated4Prevention Programme24% dropped out between baseline and 12 month measurementsChanges from baseline to 12 mths, mean weight (kg) 42.52 Systoles BP 4.101 Diastlice BP 4.21438Culturally appropriate fremet For migrant25% dropped out between weeks 0 and 12Changes from baseline to 12 mths, mean weight (kg) 42.52 Systoles BP 4.101 Diastlice BP 4.21437Culturally appropriate fremet Pokistoms25% dropped out between weeks 0 and 12Physical activity increased from 4.000 4/- 22.6 steps to 8.617.4.1.596.8 Average cholesterol reduced from 6.0.000 4/- 22.6 steps to 8.617.4.1.596.8 Average cholesterol reduced from 6.0.001/1+/-0.10 Fasting bload glucase reduced from 6.0.011.10 Fasting bload glucase reduced from 6.0.001/1+/-0.13 Fasting bload glucase reduced from 6.0.011.10 Fasting bload glucase reduced from 50.004/-10.06 Fasting bload glucase reduced from 90.004/-12.5 by 1.6.01.07 Fasting bload glucase reduced from 90.004/-12.5 by 1.6.01.07 Fasting bload glucase reduced from 90.004/-12.5 by 1.6.01.01 Fasting bload glucase reduced from 90.004/-12.5 by 1.6.01.01 Fasting bload glucase reduced from 90.004/-10.05 Tatel cholesterol reduced from 90.004/-1.0.5 by 0.6.01.01 Tatel cholesterol reduced from 90.004/-1.0.5 by 0.6.01/1 Tatel cholesterol reduced from 90.004/-1.0.5 by 0.6.01/1 Tatel cholesterol reduced from 90.004/-1.0.5 by 0.6.01/1 Ta | | | | | |
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| Sydney Diabetes Prevention Programme Still being evaluated Still being evaluated Still being evaluated Prevention Programme Greater Freen Triangle DPP 24% dropped out between baseline and 12 month measurements Changes from baseline to 12 mths, mean weight (kg) 42.52 BMI ± 0.93 Prevention Programme | | - | Still being evaluated | Still being evaluated | 13 |
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| The DEPLOY Pilot Study 37% drop out in intervention arm Standard advice 12-14mths Group DPP 12-14mths 22 The DEPLOY Pilot Study 37% drop out in intervention arm % change in weight↓1.8 % change in weight↓6.0 28 compared to 28% in control arm % change in BMI↓1.4 % change in BMI↓6.7 60 Change in HbA1c 0.0 Change in HbA1c↓0.1 60 Change in total cholesterol (mg/dL)↑11.8 (mg/dL)↓13.5 Change in systolic BP (mmHg) Change in systolic BP (mmHg) ↓1.6 | | ri erennon er ogramme | | | |
| intervention arm % change in weight ↓1.8 % change in weight ↓6.0 compared to 28% in % change in BMI ↓1.4 % change in BMI ↓6.7 control arm Change in HbA1c 0.0 Change in HbA1c ↓0.1 Change in total cholesterol Change in total cholesterol (mg/dL)↑11.8 (mg/dL)↓13.5 Change in systolic BP (mmHg) ↓1.6 | | The DEPLOY Pilot Study | 37% drop out in | | 22 |
| compared to 28% in % change in BMI↓1.4 % change in BMI↓6.7 control arm Change in HbA1c 0.0 Change in HbA1c↓0.1 Change in total cholesterol Change in total cholesterol (mg/dL)↑11.8 (mg/dL)↓13.5 Change in systolic BP (mmHg) Change in systolic BP (mmHg)↓1.6 | | | | | |
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| Change in total cholesterol Change in total cholesterol (mg/dL)↑11.8 (mg/dL)↓13.5 Change in systolic BP (mmHg) Change in systolic BP (mmHg) ↓1.6 | | | 1 | | |
| (mg/dL)↑11.8 (mg/dL)↓13.5 Change in systolic BP (mmHg) Change in systolic BP (mmHg) ↓1.6 | | | | 5 | |
| Change in systolic BP (mmHg) Change in systolic BP (mmHg) ↓1.6 | | | | 5 | |
| | | | | | |
| | | | | | |

A review of type 2 diabetes and CVD prevention translational research prepared for CMDHB, unpublished



17.5.2011 in Manchester



into practice

Prevention of Diabetes Self-Management Implemantation Program (PREDIAS): Effects on Weight, **Metabolic Risk Factors, and Behavioral** Outcomes

BERNHARD KULZER, PHD¹ NORBERT HERMANNS, PHD¹ DANIELA GORGES, MA¹

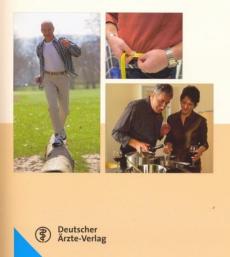
PETER SCHWARZ, MD² THOMAS HAAK, PHD¹

B. Kulzer, N. Hermanns, B. Maier, D. Gorges, M. Ebert, P. Schwarz, J. Schwarz, Th. Haak

PRAEDIAS

Diabetes vermeiden selbst aktiv werden

Ein Leitfaden für den Alltag



| | Control | PREDIAS | Between-group P-value |
|----------------------------------|---------------------------------|--------------------------------|--------------------------|
| BMI (kg/m²) | | | |
| Baseline | 32.0 ± 5.7 | 31.0 ± 4.7 | |
| Endpoint | 31.5 ± 5.8 | 29.7 ± 4.7 | |
| Change from baseline to endpoint | $-0.5 \pm 1.4 \ (P = 0.002)^*$ | $-1.3 \pm 1.7 \ (P < 0.001)^*$ | 0.002 |
| Weight (kg) | | | |
| Baseline | 93.6 ± 19.3 | 92.1 ± 16.5 | |
| Endpoint | 92.2 ± 19.4 | 88.3 ± 15.9 | |
| Change from baseline to endpoint | $-1.4 \pm 4.0 \ (P = 0.002)^*$ | $-3.8 \pm 5.2 \ (P < 0.001)^*$ | 0.001 |
| Waist circumference (cm) | | | |
| Baseline | 106.3 ± 13.7 | 106.8 ± 13.7 | |
| Endpoint | 105.9 ± 14.1 | 102.7 ± 12.5 | |
| Change from baseline to endpoint | $-0.4 \pm 6.2 \ (P = 0.559)^*$ | $-4.1 \pm 6.0 \ (P < 0.001)^*$ | 0.001 |
| Fasting glucose (mg/dl) | | | |
| Baseline | 105.5 ± 12.4 | 105.7 ± 12.4 | |
| Endpoint | 107.3 ± 14.3 | 101.4 ± 11.3 | |
| Change from baseline to endpoint | $1.8 \pm 13.1 \ (P = 0.211)^*$ | $-4.3 \pm 11.3 (P = 0.001)^*$ | 0.001 |
| 2-h postprandial OGTT (mg/dl) | | | |
| Baseline | 138.5 ± 34.9 | 133.1 ± 36.2 | |
| Endpoint | 130.3 ± 36.1 | 125.8 ± 41.3 | |
| Change from baseline to endpoint | $-8.2 \pm 36.9 \ (P = 0.060)^*$ | $-7.3 \pm 30.8 (P = 0.041)^*$ | 0.865 |

Kulzer B,; Diabetes Care. 2009 Jul; 32(7):1143-6



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- Diet composition:
 - Saturated and trans fat ψ
 - Unsaturated fat ↑
 - Whole grains and fibre 个
 - Refined grains and sugar ψ
 - Lots of vegetables and fruit
 - Energy density ↓
 - Culturally adjusted

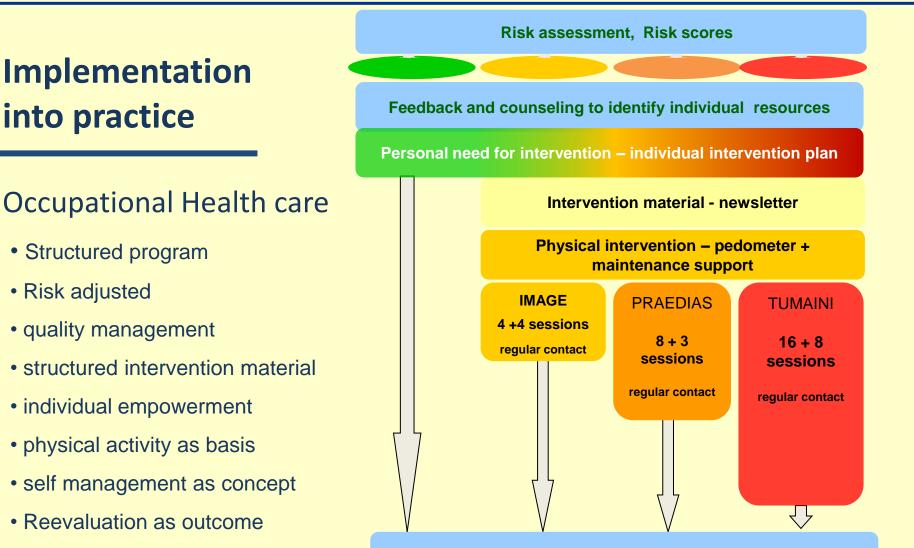
Common features of successful prevention trials

- Frequent contacts with the intervention personnel
- Empowering:
 - Motivational interviewing
 - Self-monitoring (food diaries, measuring body weight)
 - Individualised lifestyle goals and their monitoring
- Physical activity at least 2,5 h per week
 - All exercise (aerobic, muscle strengthening) is beneficial
 - Most effective risk reduction was achieved with at least moderately strenuous exercise
- Weight reduction (if overweight)
 - Moderate sustained weight loss (5-10%) lowers the risk



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individual risk evaluation after 1 year, quality management



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Take Action to prevent Diabetes

A curriculum for Prevention managers for the prevention of type 2 diabetes



Improving Diabetes Prevention



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Tasks of the Prevention Manager (PM)

Management:

- Communication with other players (diab. prevention and society), networks Motivation and recruitment of participants (persons at high risk)
- Motivation and recruitment of participants (persons at high risk)
- Organization of the programme (time line, dates, places, coworkers*, reimbursement, ...)

Evaluation

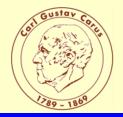
Counselling and Training:

Behaviour change & Motivation

Lifestyle I – specific aspects of nutrition*

Lifestyle II – specific aspects of physical activity*

*) in some countries the prevention manager will establish a "diabetes prevention <u>team</u>" assuring to integrate experienced experts of the respective prevention areas



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Structure of the Training Curriculum PM^{T2Dm}

The Training Curriculum PM^{T2Dm} includes **8 modules** (7x face-to-face plus 1x project report)

- Module 1: Problem, Evidence, and Tasks
- Module 2:Course Organization, Recruitment, Networking, EvaluationManagement
- Modules 3 & 5: Behaviour Change I (Motivation) and Behaviour Change (II) (Action and Maintenance)
- Module 4:Specific Aspects of Physical Activity in Diabetes Prevention
- Module 6: Specific Aspects of Nutrition in Diabetes Prevention
- Modules 7 & 8: Longitudinal Project Report/Presentation of the Report



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Overall Structure of the PM Training

Pre-course assignment

assisted selfstudies
Commented study material
Entrance examination

Face-to-face part

- 7-8 training modules
- skills training
- intermediate tests
- interactive
 program
 development

Post-course supervision

IMAGE elearning platform
1 year supervision to implement prevention program

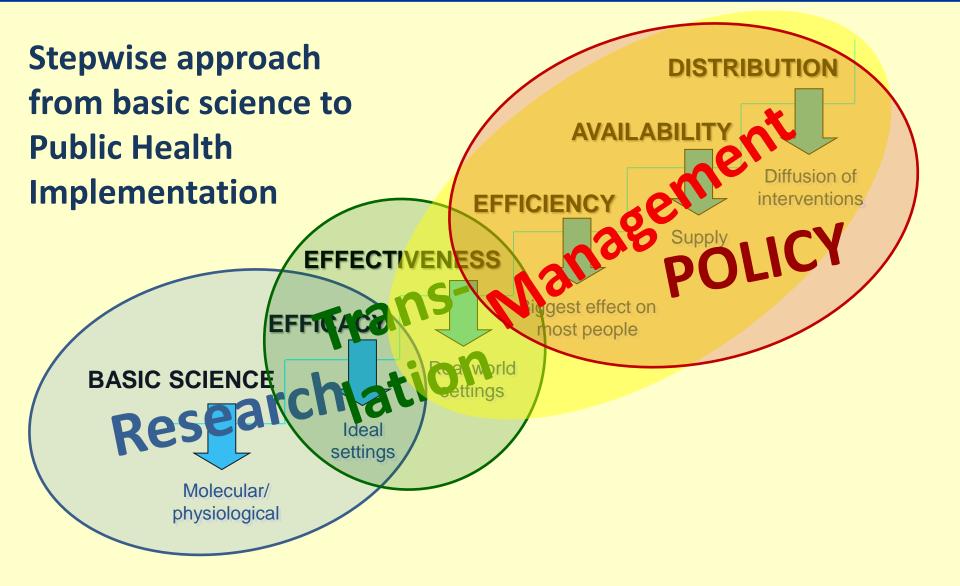
PM alumni network

 local national and international exchange of know how
 Quality management



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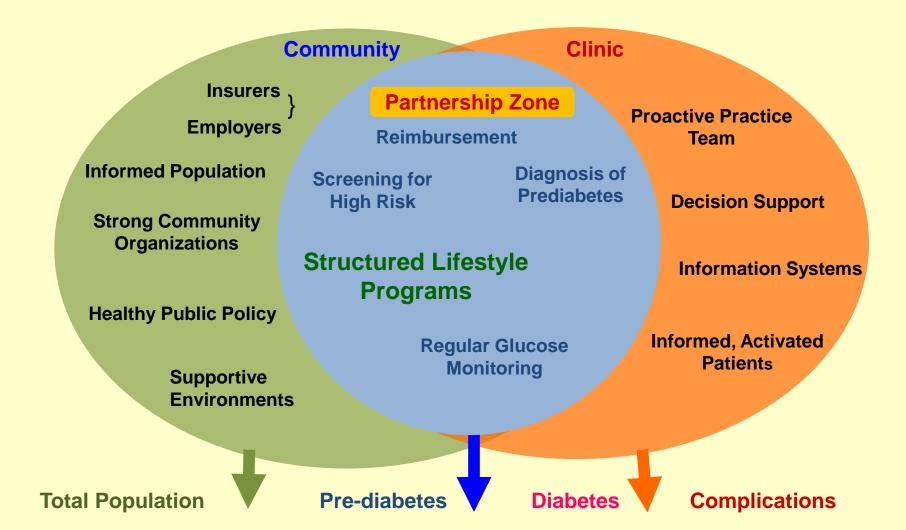




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Prevention of Type 2 Diabetes The Community – Clinic Partnership Model







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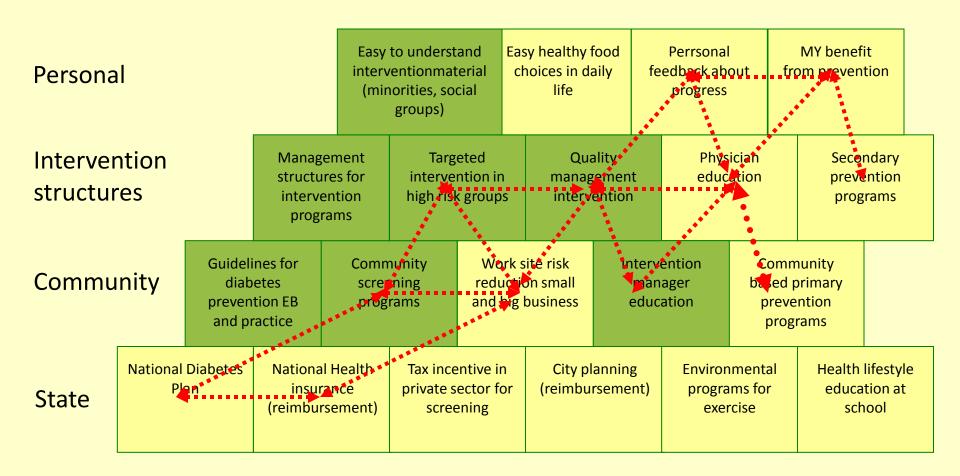
| Personal | | | | | Easy to understand intervention material (minorities, social groups) | | - | Easy healthy food choices in daily life | | Perrsonal feedback about progress | | MY benefit from prevention | |
|----------------------------|--|---|-------------------------|-----------------------------------|---|--|---------------------------------------|---|------------------------|---|-------------------------------------|-------------------------------|--|
| Intervention structures | | Manag structu interve progr | res for ention | es for intervention high risk gro | | | Quality management intervention | | Physician education | | Secondary prevention programs | | |
| Community diab | | | screening B programs | | Work site risk reduction small and big business | | Intervention manager education | | based prev | munity primary ention grams | | | |
| State | | I Diabetes National Plan insura (reimburs | | ance | ce private sector fo | | 71 0 | | - | | educa | lifestyle tion at ool | |

Schwarz PE, Med Clin North Am. 2011 Mar;95(2):397-407.





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Schwarz PE, Med Clin North Am. 2011 Mar;95(2):397-407.



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Challenge Implementation

- **1.** Evidence for diabetes prevention (guideline)
- 2. Evidence for diabetes prevention Practice (Implementation trial, Experience, practice guidelines)
- 3. Political support (Diabetes plan, Prevention plan, Educational activities,
- 4. Partners at different levels of care (stakeholder involvement, multidisciplinary team....)
- 5. Adequate intervention concepts and material (Exchange with others, know how transfer, networking......)
- 6. Training of the trainer (license, reimbursement, work plan prevention)
- 7. Quality management in the process (comparable QM, benchmarking)
- 8. Business plan prevention including high risk and public health approach



NICE PUBLIC HEALTH PROGRAMME GUIDANCE

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Principles Considered in Developing the National Diabetes Prevention Program

Diabetes risk must match program cost Program must be effective Program must be economically sustainable Program must be available

What is the situation today?

VPC The Virtual Prevention Center



THE VIRTUAL PREVENTIONCENTER

VPC The Virtual Prevention Center

TAKE ACTION TO PREVENT DIABETES







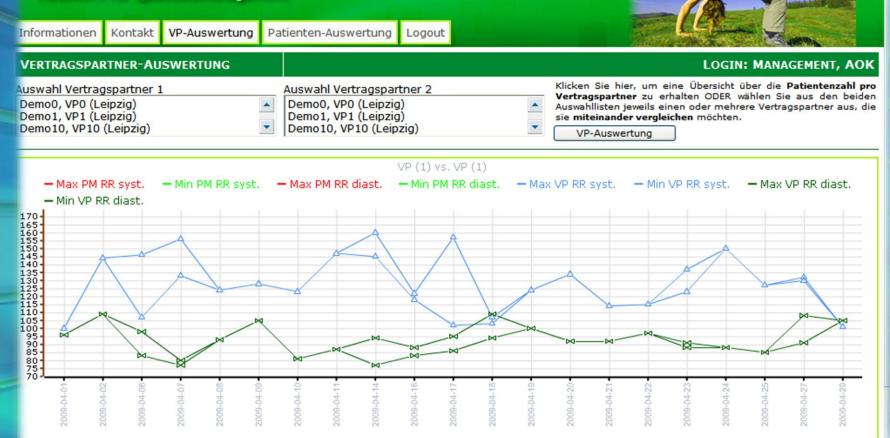
THE VIRTUAL PREVENTIONCENTER

| | | Info | Logout | My cent | er Search | | 2 | | • | |
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Pre-assessment IMAGE-Curriculum

Quality management in the virtual center

Netzwerk für Qualitätsmanagement



The Virtual PreventionCenter

Directory - who is active in diabetes prevention

Do you think that Diabetes Prevention is important?

Worldwide network of people active in Prevention of Diabetes

www.active-in-diabetes-prevention.com

Info@activeindiabetesprevention.com

Number of users in the network "Active in diabetes prevention" *1 month after start* - 338



north america: 21 africa: 14 south america: 10 asia: 24 europe: 263 australia: 6

Number of users in the network "Active in diabetes prevention" 2 months after start - 1085



north america: 247 africa: 49 south america: 60 asia: 102

europe: 583 australia: 44

Number of users in the network "Active in diabetes prevention" 6 months after start - 2016 user

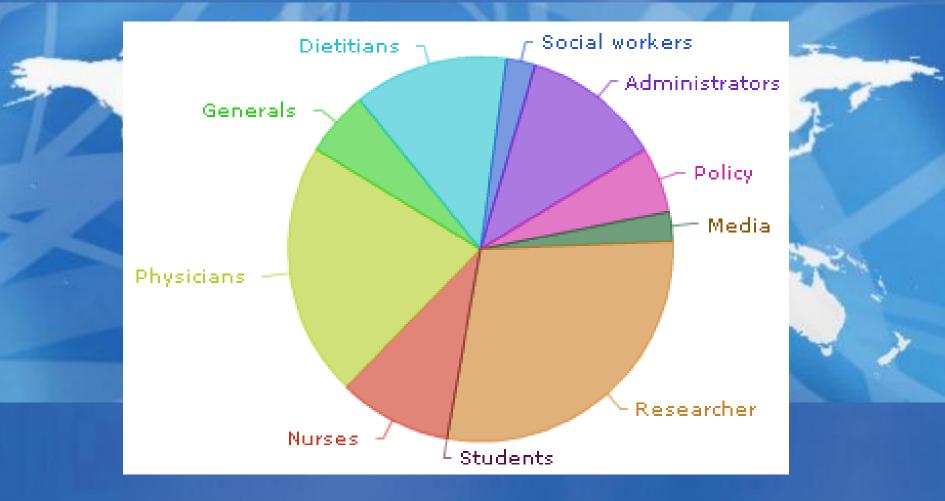


north america: 470 africa: 76

south america: 101 asia: 235 europe: 1063 australia: 71

| Country ranking | | | | llsers per country | | | | | |
|-----------------|------|---------|--------|---|--|--|--|--|--|
| | RANK | COUNTRY | MEMBER | Users per country r of users in the network "Active in diabetes prevention" in the network "Active in diabetes prevention" Today - 3688 user | | | | | |
| | 1 | GER | 579 | Today - 3688 user | | | | | |
| | 2 | CD | 328 | | | | | | |
| | 3 | USA | 321 | | | | | | |
| | 4 | FIN | 148 | | | | | | |
| | 5 | UK | 143 | | | | | | |
| | 6 | П | 122 | | | | | | |
| | 7 | AUS | 102 | | | | | | |
| | 8 | SP | 88 | | | | | | |
| | 9 | IND | 85 | | | | | | |
| | 10 | POR | 59 | | | | | | |
| | 11 | NIG | 50 | | | | | | |
| | 12 | NET | 48 | | | | | | |
| | | VEN | 46 | | | | | | |
| | | SWE | 36 | | | | | | |
| | | PAK | 35 | | | | | | |
| | 16 | | 35 | | | | | | |
| | 17 | FR | 33 | merica: 681 south america: 135 europe: 1444 | | | | | |
| | 18 | BR | 32 | merica: 681 south america: 135 europe: 1444 130 www.astiveindiabetesprevention1com | | | | | |
| | 19 | SWI | 32 | | | | | | |
| | 20 | AU | 29 | | | | | | |

Distribution of members in the network "Active in diabetes prevention"



www.activeindiabetesprevention.com



NICE PUBLIC HEA

17.5.2011 in Mancl

Network –

who are active in

diabetes prevention

Number of users in the network "Active in diabetes prevention" *Today - 3107 user*



Network - who is active in diabetes prevention

Register Login

Velcome to the Network of Diabetes Prevention

Invitation letter Our aims

e you can find useful information about diabetes ention. Furthermore this board should be used as a munication platform between all those interested on etes prevention worldwide.



"Between the topics of interest in our Teenegers Education Programs, sport and eating habits are discussed as way to prevent diseases." Matthias Labisch – Dresden, Germany, Reg-No: 00011

urrently we have 3074 registered users from 134 countries.



World directory for people active in the prevention of diabetes - Register Today!

Our aim is to bring people world wide together interested in diabetes prevention. We invite everyone we is active in the prevention of diabetes and chronic diseases - medical professionals but also lay-people politicians, administrators, public health specialists, health care providers and many, many others - to become a partner in the network.

We would like to establish an online world directory for "people active in diabetes prevention" to conneindividuals who are interested and active in the field of prevention of diabetes mellitus. This should help to

- build up a network of people being active in the prevention of diabetes worldwide
- exchange information and experiences leading to successful implementation of prevention programs

With this network we would like to build a climate of understanding of success but also difficulties in the process of implementation.

If you are interested please go ahead and register with your name and Email address today. Step by ste we would like to extend the information based on your inputs and responses.

Join the network "people active in diabetes prevention" and make the prevention of diabetes mellitu become reality.

Prof. Peter Schwarz - Dresden, German

Diabetes Prevention Forum

www.activeindiabetesprevention.com