

Diabetes management for patients with a serious mental illness (SMI)

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Premature Death and Co-morbidity of People living with Serious Mental Illness (SMI) i.e. Schizophrenia, Psychosis, Bipolar Depression and Anxiety

- ✓ At increased risk of poor physical health, and their life-expectancy is reduced by an average of 15-20 years mainly due to preventable physical illness.
- ✓ Double the risk of obesity and diabetes.
- ✓ 3 times the risk of hypertension and metabolic syndrome.
- ✓ 5 times the risk for dyslipidaemia than the general population.
- ✓ Less than a third of people with schizophrenia in hospital have received the recommended assessment of CVD risk in previous 12 months.
- ✓ Less access to cancer screening and early intervention than the general population.
- ✓ 3.2 times more A&E attendances and 4.9 times more unplanned inpatient admissions than the general population with significantly higher length of stays.
- ✓ Less access to planned physical care, use more emergency hospital care than those without mental ill health

What are the statistics in diabetes in patient with a SMI condition?

- ✓10-15% diabetes prevalence (De Hert et al, 2009)
- ✓Obesity rates approximately double in people with schizophrenia
- ✓ Patients are motivated about their physical health but less able to prioritise physical well being
- ✓Altered body composition
- ✓Increased visceral fat
- √ Higher waist to hip ratios
- √Historically high rates of undiagnosed diabetes
- ✓ Reduced screening in this group

What is the problem in the UK with SMI & Diabetes?

Compared to those with diabetes only, individuals with diabetes and mental health disorders have:

- ✓ Decreased medication adherence
- ✓ Decreased compliance with diabetes self-care
- ✓Increased functional impairment
- ✓Increased risk of complications associated with diabetes
- ✓Increased healthcare costs and an increased risk of early mortality

Identifying where the gaps in knowledge/joint working lie?

The following treatment modalities should be incorporated into primary care and self-management education interventions to facilitate adaptation to diabetes:

- ✓ Reduce diabetes-related distress and improve outcomes:
- ✓ Motivational interventions, family therapy and collaborative case management.
- ✓ Individuals taking psychiatric medications, particularly atypical antipsychotics, benefit from regular screening of metabolic parameters. Lester Tool Screen and Intervene!!!
- ✓ Empowering our patients to understand the condition and take control is key but someone with SMI may not be able to do this without support
- ✓ All health care professionals have a role in promoting better diabetes self-management but need to know how SMI will impact on ability to manage consistently
- ✓ Management of cardiovascular risk factors including blood pressure and lipids is as / more important than glucose control, is this fully understood for patients with co-morbid Mental Health risk factors
- ✓ Early and aggressive glucose lowering treatment needed
- ✓ Drug treatments need to be individualised to the patient



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Lester UK Adaptation | 2014 update An intervention framework for people Positive Cardiometabolic Health Resource experiencing psychosis and schizophrenia **Body Mass Glucose Regulation** Lifestyle and Life Skills Rlood Index (BMI) Smoking **Blood Lipids** Pressure Weight Total chol/HDL rat ZONE HbA_{1C} or Glucose threshold: to detect high (>109 risk of CVD based o QRISK-2 Tool BMI ≥25 kg/m² HbA₁c≥42 mmol/mol (≥6%) AND/OR 23 kg/m² if South Asian or Chinese) AND/OR Poor diet >140 mm Hg systolic AND/OR Current smoke FPG ≥5.5 mmol/l http://grisk.org >90 mm Hg diastolio RED Note: CVD risk scores RPG > 11.1 mmold Medication review and lifestyle advice to include diet and physical activity NB Family history of diabetes and/or premature heart disease heightens cardiometabolic risk Refer for investigation, diagnosis and treatment by appropriate clinician if necessary. NTERVENTIONS -V Follow NICE guideline r lipid modifica At High Risk Diabetes Brief intervention Follow NICE hypertension guidelines of Diabetes HbA 15 248 mmol/mol (26.5%) Combined NRT and/or AND HbA_{1c} 42-47 mmol/mol (6.0% - 6.4%) Refer to specialist it total cholesterol >9 non-HDL chol >7.5 o TG>20 (mmol/l) http://publications. nice.org.uk/ hypertension-cg127 Individual/group behavioral support or specialist support if high dependency FPG 5.5 - 6.9 mmol/l i) Offer intensive structured lifestyle education Endocrine review Follow NICE diabetes guidelines AND Referral to Smoking Cessation service programme ii) If ineffective consider metfo Consider lipid Limit salt intake in diet http://www.nice.org. uk/CG87 v v • **TARGET** BMI 18.5-24.9 kg/mi <140/90 mm Hg (18.5-22.9 kg/m if South Asian or Chinese) <130/80 mm Hg fo those with CVD or

FPG = Fasting Plasma Glucose | RPG = Random Plasma Glucose | BMI = Body Mass Index | Total Chol = Total Cholesterol | HDL = High Density Lipoprotein | TRIG = Triglycerides

What are the team in Northumberland Tyne and Wear Mental Health and Disabilities Trust doing?

- ✓ Dedicated Diabetes Clinical Reference group within the Trust focussed on Learning from incidents and best practice
- ✓ Presented and gained support for collaborative working from North East and Cumbria Diabetes Clinical Network NHSE/NHSI/Commissioners /Primary Care
- ✓ Joint work with local Diabetologists and Specialist Nurses to review access to specialist Diabetes practitioners and local patient pathways across 5 Acute Trusts on our patch
- ✓ Developing in house training programmes for all multi professional Nursing Medical and Allied Health Professional staff

What can you as an HCP do to help drive forward this initiative?

✓ Tell us what you need to know about mental health conditions to help you manage the care and treatment for patients who also have diabetes

Contact us at DPCtoolkit@diabetespc.com to get involved, and for further information and resources