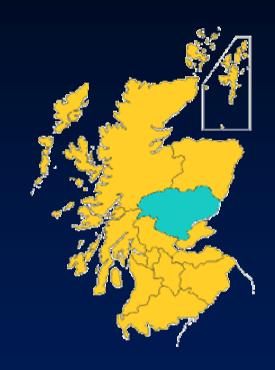
# Work Package 3: Common Dataset Work Package 4: Data Dictionary







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#### Introduction

- Progress to Date
- Initial Dataset
- Parameters
- Clinical Sites
- Quality Criteria
- Linking to Indicators
- META Data

# Work Package 3: Common Dataset

- "The WP will ensure the definition of a minimum dataset that can be used as a common data reference for the extraction of compatible entities at the international level."
- "A coding/decoding mechanism will be identified to translate regional data in entities that can contribute to the definition of a shared information system."

# Work Package 4: Data Dictionary

 "The WP will create an electronic directory inclusive of concept and data dictionaries for diabetes care and prevention, thereby allowing to dynamically link the clinical knowledge-base to the systematic evaluation of health systems outcomes."

### **Progress to Date**

- Dataset comparison
  - DiabCare
  - Scottish Diabetes Core Dataset
  - Umbria AMD Data File
  - EUCID
- BIRO Dataset Comparison V2 0.xls

#### **Core Data Items**

- 25 High Validity Data Items Identified
- Basic Patient Information
  - e.g. Type of Diabetes, Date of Birth, Year of Diagnosis
- Risk Factors
  - e.g. Cigarettes / Day
- Clinical Measurements
  - e.g. Weight, Height, SBP, DBP, HbA1c, Creatinine
- Examinations
  - e.g. Eye Examinations
- Outcomes
  - e.g. End Stage Renal Failure

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#### **Additional Data Items**

- Additional analysis to identify items that can be gathered well by 2 or more partners
- Need to carefully select data items not present in EUDIP shortlist
- BIRO Dataset will contain data items broken down to following categories:
  - High Validity (already defined)
  - Medium Validity
  - Low Validity

#### **Clinical Data Item Definitions**

- DiabCare data items do not have clear definitions
- Concept of collecting data "Before" and "After" a visit or treatment is not easily defined
- Are FQSD definitions used across Europe?
- Dundee need details of all local definitions
- Statistics on completeness of data required

#### **Clinical Site Data**

- Need items in BIRO to describe clinical sites
- Country
- Data Source Type
  - e.g. GP, Hospital Clinic (Diabetes), Regional Register
- Name of Clinic
- Clinic Denominator (Population)
- Geographical Area
- Website

#### **Clinical Site Data**

- Contact Address
- Clinical Contact
- Clinical Contact Email Address
- Technical Contact
- Technical Contact Email Address
- We need this information from all partners for all sites!

#### **Parameters**

- Each BIRO Dataset item will be recorded as a "Parameter"
- Parameters will have a unique reference
- Will be clearly defined
- Will have an associated data type
- May have a unit of measurement (e.g.kg/m²)
- May have an upper or lower range
- May have a locally defined guideline value

## **Quality Criteria**

- Quality Criteria can be applied to any data item from any data source
- QC1: All data for this item should be complete and accurate for all patient encounters
- QC2: Data is not routinely collected
- QC3: Data is only collected for a subset of the population
- QC4: The data is entered immediately by the medical staff

# **Quality Criteria**

- QC5: The data is entered retrospectively by medical staff
- QC6: The data is entered retrospectively by administrative staff
- QC7: The laboratory analyser is not standardised for this test
- QC8: The results are estimates only
- Other suggestions required from all partners!
  - Additional Quality Criteria.doc

#### **Indicators**

- Work Packages 2, 3 and 4 will work closely
- Indicators must contain data items that are currently recorded consistently
- Indicators can be relevant at different levels
  - Health System Level
  - Provider Level
  - Patient Level
- Data from sites with certain quality criteria issues may be excluded from analyses

#### Indicators

- META Data for each Indicator will contain:
  - Full text description
  - Indicator level
  - Contributing parameters
  - Acceptable quality criteria
  - Acceptable clinical site types

#### **META Data**

- Parameters, Quality Criteria, Indicator and Clinical Sites shown in META Data Documentation
  - BIRO Metadata v1 2.xls
- Guidance Documentation
  - BIRO Metadata Guidance v1 1.doc

#### XML Schema

- BIRO META data will be sent to SEDIS engine in XML format
- Clinical Definitions for BIRO parameters
  - ClinicalDefinitions.xml
- Example Hospital Extract
  - Ninewells Data Extract.xml
- Open source XML software to be identified!

### Summary

- From all partners, we require:
  - Local data definitions
  - Additional Quality Criteria
  - Descriptions of Clinical Sites