Early Intervention n
Psychosis;
background

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Early Intervention

concepts

aims
EARLY INTERVENTION IN SOMATIC MEDICINE

equals treatment of pre-symptomatic illness

hypertension; no symptoms, but objective signs of illness

symptoms and signs are at different epistemological levels of description
diabetes

subjective symptoms such as thirst, increased urine-production and blurred vision

objective tests confirms the diagnosis
SIGNS AND SYMPTOMS

psychosis

subjective symptoms such as hallucinations, delusions or thought-disorder

no objective tests can confirms the diagnosis

description at only one epistemological level = diagnosis of pre-symptomatic illness is not possible
LEAD TIME BIAS

Advances in Diagnostic Imaging and Overestimations of Disease Prevalence and the Benefits of Therapy

William C. Black, and H. Gilbert Welch

LEAD TIME BIAS

“abnormalities can be detected well before they produce any clinical signs and symptoms”

prostata-cancer; 1% of the male population 60-70 yrs are ill

modern diagnostic techniques “detects” cancer in up to 40% of the same population = 4000% increase!

mammography increases the incidence of breast cancer from 1% to 35%

lead time bias is very important for studies of outcome
LEAD TIME BIAS

- start of process
- early diagnosis ED
- late diagnosis LD
- artefact
- ED survival time
- LD survival time
- death

Time
Black and Welch’s critique is however, based upon the idea of diagnosis of pre-symptomatic illness.

What relevance does it have for ED of psychosis in which diagnosis of pre-symptomatic illness is impossible?
LEAD TIME BIAS

- Lead time bias
- Start of psychosis
- Early diagnosis ED
- Late diagnosis LD
- DUP ED
- DUP LD
- Artefact
- True effect of TIPS; DUP + time to remission
- ED time to remission
- LD time to remission
- Remission
- Time
LEAD TIME BIAS IN PSYCHOSIS

we do not have diagnosis of pre-symptomatic illness in psychosis

time to remission is the outcome factor

lead time bias goes the other way around; the consequence is that ED leads to a longer time to remission

if this is correct; ED should not increase incidence as in somatic medicine
TIPS

Secondary prevention

TOMP

Primary prevention

Prodrome

DUP

Treatment

Onset of psychosis
CONCEPTS

DUP = duration of untreated psychosis
prepsychosis
preschizophrenia
prodromal symptoms
at risk mental state
hypopsychosis
TWO AIMS

can primary prevention be achieved?
can DUP be reduced?
Baseline

- **All Symptoms (n = 615)**
- **Depression/Anxiety (n = 571)**
- **Disorganized Symptoms (n = 136)**
- **Negative Symptoms (n = 1401)**
- **Overall Functioning (n = 367)**
- **Positive Symptoms (n = 1135)**
- **Quality of Life (n = 330)**
- **Social Functioning (n = 248)**

**Correlation Coefficient (95% CI)**

- **Short DUP Worse**
  - **All Symptoms (n = 615)**
  - **Depression/Anxiety (n = 571)**
  - **Disorganized Symptoms (n = 136)**
  - **Negative Symptoms (n = 1401)**
  - **Overall Functioning (n = 367)**
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6 mo

- **All Symptoms (n = 530)**
  - **Depression/Anxiety (n = 530)**
  - **Disorganized Symptoms (n = 574)**
  - **Negative Symptoms (n = 933)**
  - **Overall Functioning (n = 684)**
  - **Positive Symptoms (n = 933)**
  - **Quality of Life (n = 54)**
  - **Social Functioning (n = 108)**

**Correlation Coefficient (95% CI)**

- **Long DUP Worse**
  - **All Symptoms (n = 530)**
  - **Depression/Anxiety (n = 530)**
  - **Disorganized Symptoms (n = 574)**
  - **Negative Symptoms (n = 933)**
  - **Overall Functioning (n = 684)**
  - **Positive Symptoms (n = 933)**
  - **Quality of Life (n = 54)**
  - **Social Functioning (n = 108)**

12 mo

- **All Symptoms (n = 385)**
  - **Depression/Anxiety (n = 376)**
  - **Disorganized Symptoms (n = 779)**
  - **Negative Symptoms (n = 287)**
  - **Overall Functioning (n = 403)**
  - **Positive Symptoms (n = 777)**
  - **Quality of Life (n = 191)**
  - **Social Functioning (n = 191)**

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24 mo

- **Negative Symptoms (n = 164)**
  - **Overall Functioning (n = 68)**
  - **Positive Symptoms (n = 164)**
  - **Quality of Life (n = 164)**
  - **Social Functioning (n = 55)**

**Correlation Coefficient (95% CI)**

- **Short DUP Worse**
  - **Negative Symptoms (n = 164)**
  - **Overall Functioning (n = 68)**
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  - **Quality of Life (n = 164)**
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there seems to be a clear correlation between longer DUP and poorer outcome

will a reduction in DUP lead to a better outcome?