

Newborn Screening for CF

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Screening Newborns for CF

 The evidence in favour of newborn screening for CF is not overwhelming

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 It is imperative therefore that we do it well, causing minimum harm









2) Sweat tests

- After positive screen
 - 5-6 weeks
- Method
 - Gibson Cooke
 - Capillary (macroduct)
- Recognised centre (>50 per year)
 - Experience balanced with geography
 - J Paed and Child Health, 2006;42:160-4





3) DNA analysis

- At what point in the protocol
- Which mutations as a first screen (minimising carrier recognition)
- Further DNA analysis when one mutation found
- Methods to reduce sweat testing
- One mutation and positive sweat test

4) Clinical investigations

- Growth
 - Evidence of fat malabsorption
 - Fecal fats
 - Fecal elastase
- Respiratory condition
 - CXR if symptomatic; ? baseline
 - ? Routine respiratory cultures



- Positive sweat test/ one mutation
 - CF clinic, standard management
 - Continue DNA analysis (extent?)
- Unusual genotype (for example R117H on a 7T background) with equivocal or normal sweat test
 - ? outpatient review (? frequency)
 - · Monitor for respiratory symptoms/poor weight
 - Information/time for families



Nasal PD

- Challenging in infants
- Often equivocal
- Intestinal current measurements
 - More practical
- Both experimental at moment



Group members Performance <l

Timescale

- Email correspondence; define individual tasks
- Complete draft proposals
 - September 2006
- Meeting
 - Ratify draft proposals
- Write consensus document
 - December 2006
- Ratify consensus document
 - March 2007

