Collection of DNA
Danish experiences

NAV workshop
Copenhagen, January 2014
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Future in genomic testing

- Prices will go down on genomic test
- Prices on sexed semen will go down

Possible economic advantage in testing females on a large scale in many herds
I told last year:

Sample with minimal effort and maximal reliability!

Sampling - part of normal work flow

Unique connection between tag and sample
New equipment for tissue sampling

- Combined ear tag and sampling applicator
- Used for BVD control in Italy and Great Britain
- Advantage: Unique connection between ear tag number and tissue sample number
Danish pilot study

- Experience with use of tag – not test!
  - Workflow of putting in tags
  - Problems with tags afterwards
- Holstein and Jersey herd
- Approx. 120 tags per herd
- November 2012 – May 2013
- Frozen samples are genomic tested by Genoskan
Danish pilot study

- How well does conserving liquid work
  - 15 calf's with double samples per herd
  - Refrigerator, room temperature (dark, light)
  - Samples tested by Genoskan

I told last year:
What did we learn from pilot study?

• Tags are easy to use
• Important to do tagging systematically
• Bit more time consuming than ordinary tags correct top/bottom important
What did we learn from pilot study?

Traditional applicator doesn’t work!
What did we learn from pilot study?

Conserving:

• Tissue seems to have good quality no matter how it is conserved

BUT we recommend that tissues is stored in deep freezer or refrigerator!
Next step!

- Allflex did develop a new part to existing applicator that fixate liquid container
- Tested in 3 herds in September/October 2013
- Problem is fixed!

Ready for use in large scale!
Procedure for large-scale collection
Evaluation of procedure

- Use in 2 - 3 months *(start December 2013)*
- 5 - 10 herds *(presently 8 herds)*
- Farmers and Genoskan evaluate

Positiv respons – more herds
Negativ respons – revision of procedure