

Cytotechnologists in Sweden

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Cytologylabs in Sweden

- 21 regions
- 24 cytology labs
 - 2-3 private/regional
 - 1 private
- Some differences in diagnostic responsibilities



Education - training

- 1 year master
- Karolinska Institutet
- New programme 2016
- Diagnostic training
 - Cervical/Thin Prep
 - Respiratory samples
 - Urine samples (bladder washings)
 - Exsudate
- Quality Assurance & diagnostic profiles/statistics
- Molecular methods
- Scientific methodology
- Last year 2023



Cytotechnicians in Sweden

Survey 2018

	Number of CT in Sweden
Full time	157
Part time	15
Total	172

Retirement age	#
In 5 yrs (2023)	44
In 10 yrs (2028)	26
Total 2028	70

Now and future

	Changes (retirement/new CTs)
Experienced	113
From CT-course	45-50
Total 2023	158-168

	Changes (retirement/new CTs)
Experienced	158-168
From CT-course	0 (?)
Total 2028	158-168

Diagnostics – Cervical cytology

- Normal/benign
- ASC-US/LSIL
- HSIL
- HSIL+
- Only normal/benign

Diagnostics – Cervical cytology

Responsibility/CT sign off

- Normal/benign All Labs
- ASC-US/LSIL 30% of labs
- HSIL 9% of labs
- HSIL+ 50% of labs
- Only normal/benign a few labs

"Higher" diagnosis is signed off by a pathologist after screening by CT



Diagnostics – Exsudat

- Normal
- Atypic/malignant

Diagnostics – Exsudat

Responsibility/CT sign off

- Benign 36% of labs
- Atypic/malignant No labs

"Higher" diagnosis is signed off by a pathologist after suggestion of diagnosis by CT

Diagnostics – Urine

- Benign
- Atypical/malignant

Diagnostics – Urine

Responsibility/CT sign off

- Benign 86% of labs
- Atypical/malignant 1 lab (not bladder washings)
- Screening only a few labs

"Higher" diagnosis is signed off by a pathologist after suggestion of diagnosis by CT

Diagnostics – Respiratory cyt

- Benign
- Atypical/malignant
- Screening only

Diagnostics – Respiratory cyt

Responsibility/CT sign off

- Benign 86% of labs
- Atypical/malignant No labs
- Screening only a few labs

"Higher" diagnosis is signed off by a pathologist after suggestion of diagnosis by CT

Diagnostics – FNA

- Benign
- Atypical/malignant
- Not at all

Diagnostics – FNA

Responsibility/CT sign off

- Benign No labs
- Atypical/malignant No labs
- Not at all 65% of labs

CT screening at 35% of labs, suggestion of diagnosis – pathologist signs off

Diagnostics – Ancillary methods

Responsibility CT

- Order of immunocytology CT at a few labs
- Interpretation of immunocytology CT at a few labs
- FISH is performed by CT at a few labs (Pathologist signs off)

On site evaluation

- EBUS/ROSE
- Needle aspiration clinic

Most labs offer CT-assistance at some kind of ROSE.

A few labs have CT-assistance at needle aspirations.

Other responsibilities

- Labwork
- Quality Assurance
- Teamleder/labwork supervisor
- Methodology/development
- Studentsupervisor/teaching
- Screening programme
- Business solution manager/IT

How to get the "next level"?

- Time
 - 6 months 1 year normal/benign cervical cytology
- Number of cases
- Personal development
- "Interest" (mostly other responsibilities)
- Minimum of samples per year (cervical cytology)
 - KVAST (quality committee)

New Screening programme

- Primary HPV analysis for all age groups fewer slides
- Extended intervals fewer samples
- Extended genotyping
- Fewer slides/samples "Screening opportunity"

Tissue samples

- Cervical biopsies
- Prostate needles

Evaluations ongoing? Cooperation CT-Pathologist

Future

- Genius
- ROSE
- FISH
- Tissue samples?
- Labwork?
- Fewer cervical samples more teamwork
- More teamwork CT Pathologist

Thank you for listening!