

Downs & Trisomy Requests using NPEX.

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Background

- NPEX interface installed at NUH (WinPath V5) & UHL (iLab).

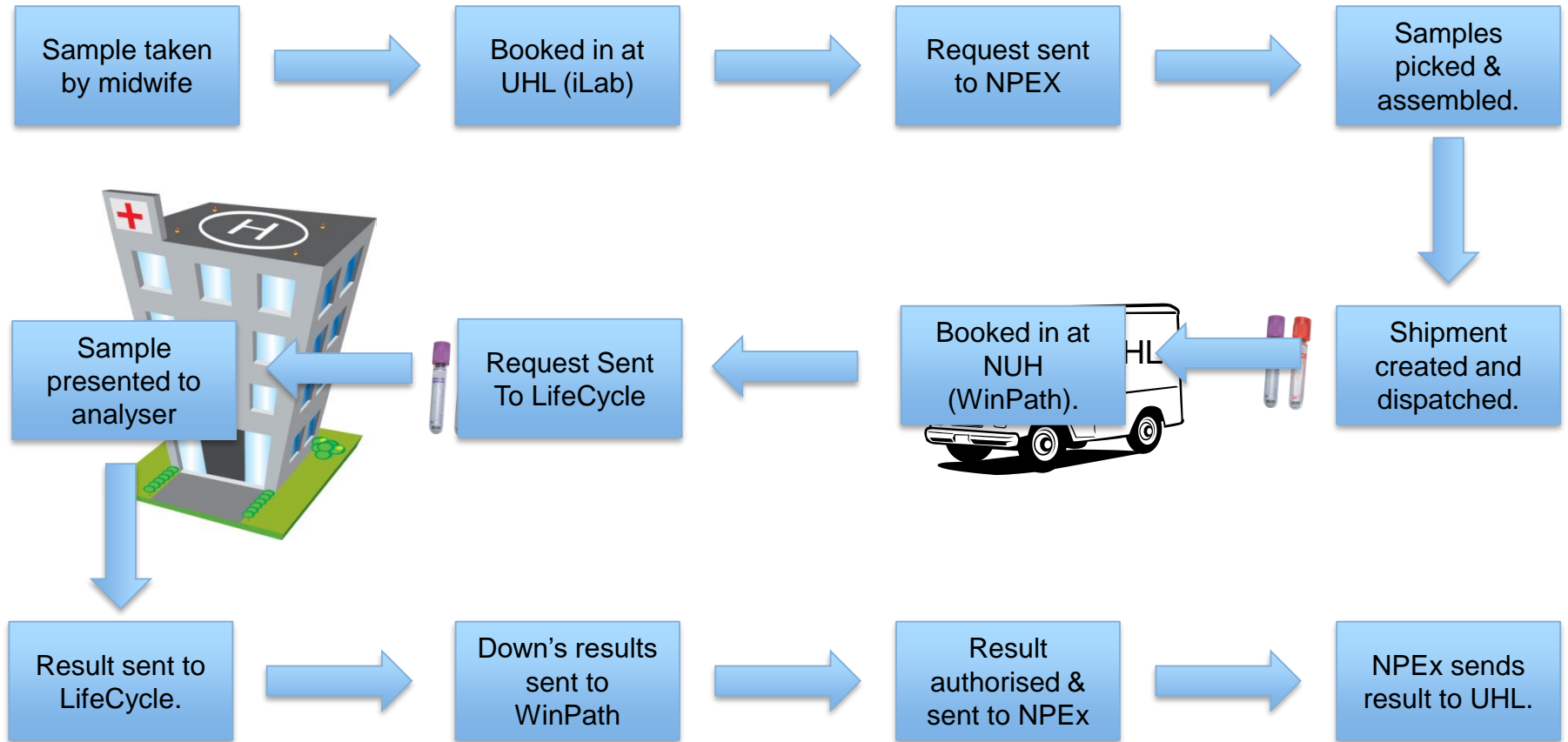


- Down's screening contract due to expire for UHL.
- NUH already a screening centre for Down's.
- Setup required within a month.

Background (cont)

- Two screening tests, 1TS and 2TS.
- Down's Screening a single result (Positive/Negative).
- Full report comprises of a few measured analytes.
- Majority of report made of patient data related to the pregnancy.
- NUH uses LifeCycle as the provider for Down's Screening results, this further complicates the setup.

UHL to NUH Downs Requesting



Problems - how they were overcome.

- Patient data fields created by NPEX
 - Eg Date of Scan, Date of Egg Harvest
- Date of scan in format ddmmyyyy e.g. 12022016.
 - iLab limit on number field 999999
 - Added additional field for UHL in format ddmmyy
- Gestation in the format 14 Weeks 3 Days
- Down's Result Positive/Negative
 - iLab interface could not handle comments
 - Added additional field for UHL e.g. 14.3 weeks
 - Result field changed to 0 and 1

Changes to screening and systems.

- Reporting of twin risks for 1st Trimester Screens.
- Introduction of new tests on T13/T18 gene.
- New NPEX interface installed at UHL to allow the transfer of comments into the patient record.
- Additional screening tests added to repertoire.
- New fields added by NPEX.
- New screening tests added:-
 - Seven Tests 1st TS (6 include twins) 2nd Trimester Screen
- Results rules to authorise Trisomy Screens at UHL.

NPEX and beyond

- Trisomy screening completed by the collaborative work between NUH, UHL, NPEX and clinical teams.
- Limitations in LIMS can be worked around.
- Testing of non-numeric results transferred via NPEX.
- Use of NPEX in Microbiology and Histopathology.
- NUH currently testing referral of Histopathology work.
- Building logic in NPEX ? e.g double referrals, manipulation of results?

Questions

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