



*Yorkshire
& Humber*
AHSN

**Transforming Lives
Through Innovation**

**The Northern, Yorkshire and
Humberside NHS Directors of
Informatics Forum (NYHDIF)**

**Virtual Wards: TytoCare: Use
Cases, Jan 2022**

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TytoCare device



LUNGS



EARS



THROAT



HEART



HEART RATE



TEMPERATURE



SKIN



ABDOMEN



Projects

WYH Projects (13)	Service type	Status
Affinity Care	Adults	LIVE
Airedale Care Homes	Adults – Care Home	LIVE 3/5
Airedale Outreach Team (TytoPro)	Paediatrics	PENDING GO LIVE
Airedale Outreach Team (TytoHome)	Paediatrics	PENDING GO-LIVE
Bradford Chronic Respiratory	Paediatrics	PENDING
Bradford Community Hospital	Adults	UNABLE TO PROGRESS
Bradford Elderly Hub	Adults	LIVE
Bradford Hospital@Home	Paediatrics	LIVE
CHFT Respiratory	Paediatrics	LIVE
CHFT ED VC	Adults	LIVE
CHFT ED VC Cross-site	Paediatrics	LIVE
Kirklees Care Homes	Adults – Care Home	PENDING
Leeds Cleft Lip & Palate	Paediatrics	LIVE



TytoCare Use Cases

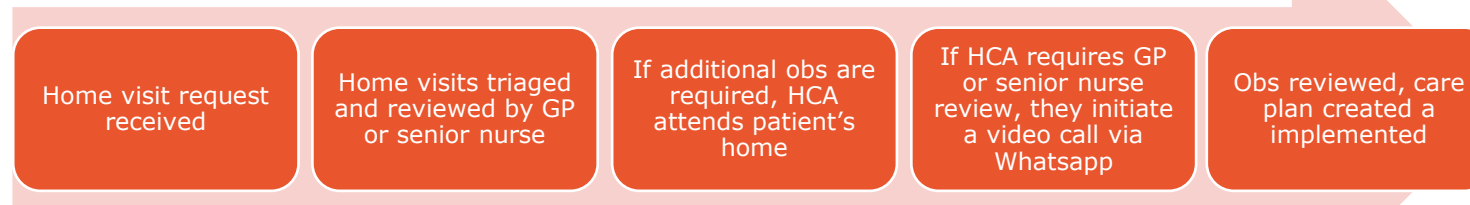


Affinity Care (South)

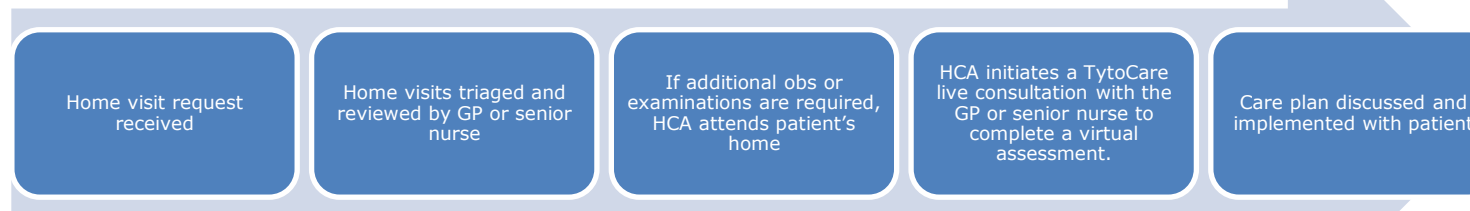


GP's and the PCN established a Centralised Home Visiting Hub to manage home visit requests after the PCN identified that this was currently being managed separately by each GP practice.

Process without TytoCare



Process with TytoCare



Benefits

- Improved patient experience, care delivered faster
- Reduce GP visits
- Reduce residents' visits to GP practices
- Reduce A&E attendances and ambulance conveyances
- Improve staff experience in the HV Hub



Airedale Care Homes

Park House Care Home

25 beds, elderly residents nursing home & Affinity Care (South) Home Visiting Hub

WiFi was upgraded to support the innovation.

Staveley Birkleas Nursing Home

61 beds, adults with disabilities, aged 18-64 & Shipley Medical Practice

Newline Residential Care Home

28 beds, older people, including people living with dementia (65+) & Airedale Digital Hub (Immedicare)

Airedale Digital Care Hub (Immedicare)

24/7 service for Care Homes

Virtual ward rounds and urgent care referrals to either the primary care provider or the Airedale Digital Care Hub.



GP or Care Hub



Airedale Digital Care Hub (Immedicare 24/7)

Online (live consultations with examinations) and Offline (pre-recorded examinations) utilised.

Benefits

- Improved resident experience, care delivered faster
- Care closer to home
- Improved quality of virtual clinical decision making
- Reduce GP visits to Care Homes (and COVID transmission)
- Reduce residents visits to GP practices
- Reduce A&E attendances and ambulance conveyances
- Improve staff experience in the Care Home



CHFT Emergency Department (ED)

Limited availability of ED Consultants to safely cover rotas (national issue), exacerbated by COVID, shielding, COVID positive or isolating from contact, high activity levels and long waits.



Using PDSA the Consultant determined the optimised process to allow ED Consultants to see patients from home or another location. This was: After triage, utilising one HCA to support with patients, able to see low acuity ED attendances and reduce the waiting times for patients. **Having only one HCA was a limiting factor.**

Lead ED Consultant when this went live had COVID, at home and saw patients. Successfully demonstrating proof of concept.

Live in Paediatrics ED where CHFT have two A&E departments but the team are based at one.

Benefits

- Reduced unplanned hospital admissions & bed days
- Improved quality of care for patients (due to more rapid access to senior clinical decision making)
- Improved staff health & wellbeing – consultants & junior medics
- Improved use of clinical time – consultants, junior medics & nursing staff
- Reduced costs of PPE
- Reduced exposure of staff to Covid
- Reduced CO2 emissions from cross site transfers



Other WYH Projects

- Using one of these two models:



Community teams equipped with Pro devices



Patient provided with a TytoHome device*

Supporting long and short term conditions e.g. early discharge

*Providing mobiles to patients to ensure Digital Inclusion.

- **WYH – BTHFT:** Paeds/Elderly medicine/Respiratory (Pro & Home devices)
- **WYH – LTHT Cleft Lip & Palate:** to diagnose cleft lip & palate, define surgical options and ensure optimal postoperative healing whilst at the same time minimising the requirement on families to travel to appointments (Pro devices)
- **WYH – Kirklees Care Home:** Pro devices with Care Homes and aligned GP practices.



Other regional projects with



**Northern Lincolnshire
and Goole**
NHS Foundation Trust

Paeds Hospital@Home &
Patients@Home

Sheffield Children's 
NHS Foundation Trust

Home Ventilation &
Palliative Care



Harrogate and District
NHS Foundation Trust

Paeds Respiratory: Chronic
patients at Home & Care Homes

Other Care
Home projects



Next steps

- Support evaluations plans with partners, BIHR, Y&H ARC/NIHR CYP MedTech (MIC)
- Case studies and benefits
- Sustainability/business case plans





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Photography: Welcome to Yorkshire | <https://www.yorkshire.com/>



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