

Long Term Conditions and Reducing Demand through Telemedicine

October 10th 2017







Rachel Binks

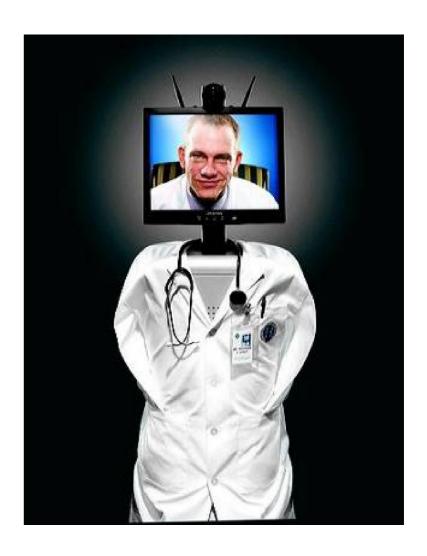
Nurse Consultant – Digital & Acute Care

Airedale NHS Foundation Trust

Digital Health



- Telecare
- Telecoaching
- Telemonitoring
- ✓ Teleconsultation



A system designed by default









Some people seem to do *quite* well without waiting for healthcare support...





Telemedicine Service



- Teleconsultation by secure video link between nursing and residential homes and the Airedale Digital Hub.
- Providing clinical consultation not a logarithm based approach like 111.
- Hub based at Airedale Hospital staffed by team of 27 senior clinicians 24/7
- Triage and assessment of all requests for GP visits in hours (Additional service called GP Triage)
- Fully managed technical service utilizing bespoke lap tops with HD cameras and with 4G SIM or Broadband





right care today



Teleconsultation

- Prison health care
- Care at home
- •Nursing & residential care
- Supporting end of life patients
- 24/7 clinical hub
- improving patient experience
- changing patient flow
- ✓ reducing costs

Electronic shared record

- connecting primary & secondary care now
- connecting whole health & social care economy tomorrow









right time – care anywhere





right place - replicable model





- 524 Nursing/Residential Care
 Homes + 50 in implementation
- Supporting > 20,000 residents
- 21 CCG contracts
- YTD 18495 clinical video consultations



Number of calls



Enhanced Health in Care Homes Vanguard

Calls	Current Month	Last Month	% Variance	YTD
Nursing home	808	721	12% 个	6,803
Own home	28	18	56% 个	239
Residential home	1,456	1,311	11% 个	11,453
Total	2,292	2,050	12% 个	18,495

Number of patients contacted

Information	Current Month	Last Month	% Variance
Nursing homes	528	474	11% 个
Own homes	11	10	10% 个
Residential homes	872	804	8% 个
Total	1,411	1,288	10% 个

Nursing Homes Residential Homes

Outcome	Current Month	Last Month	% Variance	YTD	Current Month	Last Month	% Variance	YTD
Patient remained in place of residence	714	625	14% 个	6,062	1,326	1,169	13% 个	10,062
Ambulance request for patient	73	77	5% ↓	713	111	126	12% ↓	1,138
Hospital notified of death	19	20	5% ↓	130	21	15	40% 个	152



Nursing Homes

Day	Current Month	Last Month	% Variance	YTD
Monday	117	97	21% ↑	1,061
Tuesday	121	95	27% 个	1,014
Wednesday	104	104	$0 \leftrightarrow$	942
Thursday	83	84	1% ↓	853
Friday	90	100	10% ↓	968
Saturday	128	132	3% ↓	1,086
Sunday	163	1 10	48% 个	981
Time	Current Month	Last Month	% Variance	YTD
Morning	357	354	1% 个	3,165
Afternoon	449	368	22% 个	3,740
Hours	Current Month	Last Month	% Variance	YTD
In Hours	322	284	13% 个	3,457
Out Of Hours	484	438	11% 个	3,448
Nursing Homes				
Calls	Current Month	Last Month	% Variance	YTD
Initial Contact	738	664	11% 个	6,142
Follow Up Contact	68	58	17% 个	763

Enhanced health in care homes



Residential Homes

Day	Current Month	Last Month	% Variance	YTD
Monday	262	190	38% 个	1,797
Tuesday	2 18	173	26% 个	1,622
Wednesday	188	170	11% 个	1,575
Thursday	174	188	7% ↓	1,456
Friday	180	189	5% ↓	1,645
Saturday	187	247	24% ↓	1,691
Sunday	249	153	63% 个	1,566
Time	Current Month	Last Month	% Variance	YTD
Morning	710	555	28% 个	5,025
Afternoon	748	755	1% ↓	6,327
Hours	Current Month	Last Month	% Variance	YTD
In Hours	<mark>6</mark> 63	530	25% 个	5,331
Out Of Hours	795	780	2% 个	6,021
Residential Homes				
Calls	Current Month	Last Month	% Variance	YTD
Initial Contact	1,354	1,204	12% 个	10,158
Follow Up Contact	104	106	2% ↓	1,195

Enhanced health in care homes



Nursing Homes

Information	Current Month	Last Month	% Variance
With calls	103	104	1% ↓
With no calls	61	51	20% 个

Residential Homes

Information	Current Month	Last Month	% Variance
With calls	184	170	8% 个
With no calls	96	85	13% 个

Medication/Prescriptions



MIIIPCI	$m \sim -$	omes

Action	Current Month	Last Month	% Variance	YTD
Advice given	739	678	9% 个	6,086
Emotional support	0	0	$0 \leftrightarrow$	2
Advice about medication	78	51	53% 个	537
Prescription requested from GP	53	64	17% ↓	566
Residential Homes				
Action	Current Month	Last Month	% Variance	YTD
Advice given	1,356	1,230	10% ↑	10,173
Emotional support	0	0	$0 \leftrightarrow$	1
Advice about medication	122	91	34% 个	838
Prescription requested from GP	104	104	$0 \leftrightarrow$	818

Reasons for call

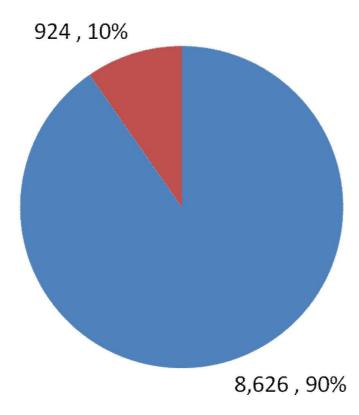


Airedale and Partners
Enhanced Health in Care Homes Vanguard

					Enhanced	Health in C	are Homes	Vanguard
Nursing Homes					Residential Homes			
Purpose	Current Month	Last Month	% Variance	YTD	Current Month	Last Month	% Variance	YTD
Abdominal pain	4	0	100% 个	4	1	0	100% 个	1
Advance Planning / DNAR	6	5	20% 个	41	5	7	29% ↓	42
Agitation / Confusion	14	10	40% 个	68	24	28	14% ↓	156
Anxiety / emotional distress	2	1	100% 个	35	4	3	33% 个	70
Bowel concerns	7	17	59% ↓	104	23	27	15% ↓	226
Breathlessness	15	11	36% 个	141	23	32	28% ↓	226
Catheter concern	12	10	20% 个	112	11	14	21% ↓	133
Cerebral event (suspected TIA / Stroke)	5	7	29% ↓	54	8	10	20% ↓	72
Chest infection (suspected)	132	114	16% 个	827	197	152	30% 个	967
Chest pain	3	1	200% 个	27	12	21	43% ↓	109
Constipation	3	0	100% 个	3	8	1	700% 个	9
Continence	0	0	0 ↔	0	0	0	$0 \leftrightarrow$	0
Death	16	20	20% ↓	107	19	15	27% 个	119
Dehydration	6	6	$0 \leftrightarrow$	65	14	13	8% 个	119
DVT (suspected)	2	0	100% 个	2	2	0	100% 个	2
EOL Symptoms	18	16	13% 个	139	28	31	10% ↓	157
Equipment failure	0	0	$0 \leftrightarrow$	0	1	1	$0 \leftrightarrow$	2
Eye Infection	7	5	40% 个	98	18	18	$0 \leftrightarrow$	165
Falls	53	55	4% ↓	417	161	157	3% 个	1,192
General Deterioration	28	20	40% 个	216	49	32	53% 个	324
GI Bleed	0	4	100% ↓	19	0	3	100% ↓	17
Head Injury	13	11	18% 个	81	19	27	30% ↓	201
Hematemesis / malaena	0	0	$0 \leftrightarrow$	0	0	0	$0 \leftrightarrow$	0
Medication issue	40	54	26% ↓	361	58	55	5% 个	426
Medication review	11	0	100% 个	11	19	4	375% 个	23
Mood disorder	7	0	100% 个	7	5	1	400% 个	6
Nausea	5	3	67% 个	18	4	4	$0 \leftrightarrow$	36
Other	166	171	3% ↓	1,841	341	294	16% 个	2,970
Pain Management	19	29	34% ↓	267	40	56	29% ↓	500
Seizure	6	6	$0 \leftrightarrow$	59	4	5	20% ↓	43
Sepsis (suspected)	8	2	300% 个	1,6	15	2	650% 个	17
Skin complaint	29	41	29% ↓	497	91	100	9% ↓	917
Spinal Cord Compression (suspected)	0	0	0 ↔	0	1	0	100% 个	1
UTI (suspected)	70	55	27% 个	567	120	103	17% 个	967
Unresponsive	7	0	100% 个	7	5	1	400% 个	6
Vomiting	23	13	77% 个	122	23	18	28% 个	138
Wound care	11	12	8% ↓	110	36	16	125% 个	266

Patient Outcomes (April 2017 to July 2017)

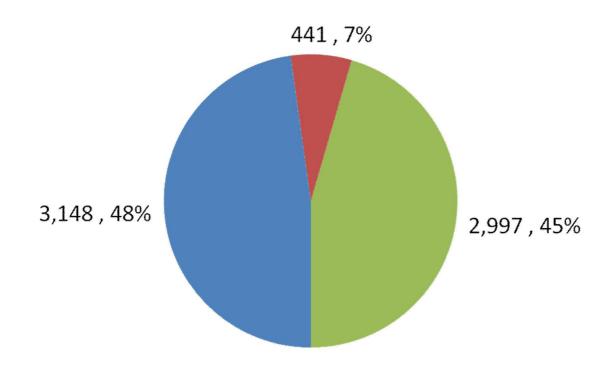




- Patient remained in place of residence (incl. reported death)
- Ambulance request for patient

Impact on GP Referrals (April 2017 to July 2017)



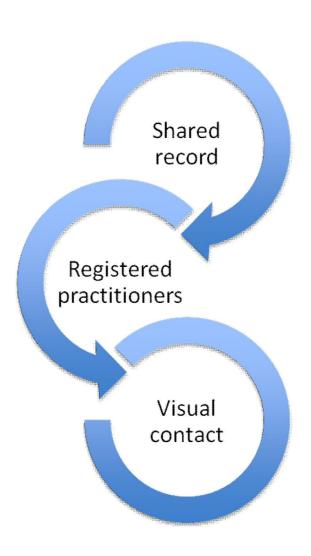


- Would have called their GP and we referred to a GP
- Would not have called their GP but we referred to a GP
- Would have called their GP but we did not refer to a GP

Other services delivered from the digital care hub

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- Gold Line
- GP Triage
- Intermediate Care Hub
- Acute Care Team
- Single Point of Access
- Complex Care Team



GP feedback



"Of all the changes in the 15 years I have been working this is the greatest change which has reduced workload I can remember. I don't mind the extra "late" duty doc visit as this is more than made up in the drop in other visits. A big thank you to all involved."

Video insight into our Gold Line Service



http://www.health.org.uk/gold-line



Place of Death



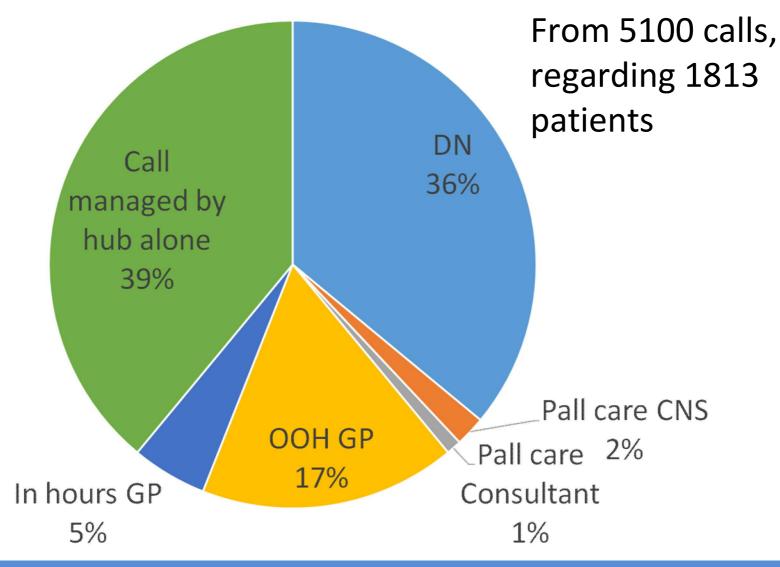
- 1700 patients with GL died in the year ending March 2016
- 1380 had place of death recorded and available to us

Place of Death	Gold Line	England (Dec 2015)
Home	34%	23%
Care Home	25%	22%
Hospice	24%	6%
Hospital	14%	48%

Onward Referrals from Gold Line



Enhanced Health in Care Homes Vanguard



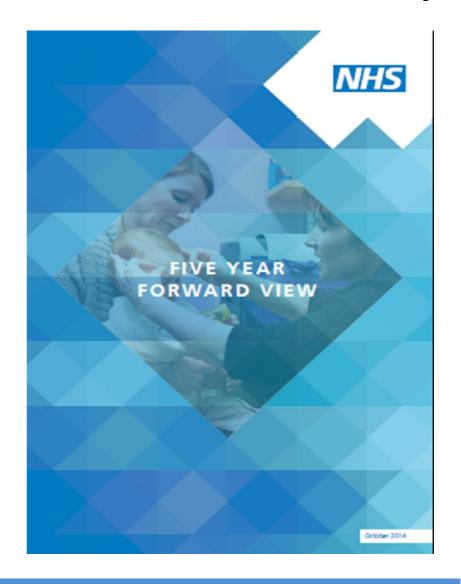
Building on our innovation



What will the future look like?

New models of care:

"...in some places the future is already emerging, for example in Airedale..."



Growing national media interest in what we do



Digital hub cuts care home referrals

Digital hub cuts care home referrals to GPs by A telemedicine service run by a Yorkshire NHS ambulance calls by almost 30%.

Staff in more than 200 care homes across English in Keighley and can seek advice 24 hours a distance of senior nurses who have online access team of senior nurses who have online access team of senior nurses who have online access teams of the second to

The aim is to improve care and to make bes "We started off with the local population, an Justin Tuggey, consultant in respiratory and at Airedale. "We now look after care home The hospital has run a telemedicine servic its care home initiative, recently described England as a vanguard site for new care The service now covers 217 care homes with 3754 calls. Had it not been there, tw in or out of hours, and 8% would have c GPs and 29% of the calls to the ambula Tuggey told The BMJ that telemedicine conventional ways. A formal audit of lo those covered by the service, generat period and a 14% faster decline in en A typical case might be an old lady w her to the emergency department an assessed by a senior nurse with acc be cal

the**bm**j



Airedale Telemedicine Studies & Reports

(Report used in impact forecast highlighted)

Airedale and Partners
Enhanced Health in Care Homes Vanguard

Organisation	Date	Title
Healthwatch	2016	Telemedicine in Care Homes: A Qualitative Evaluation
NHS England	2016	Top 100 Care Homes Ambulance Conveyance
SS CCG	2016	Care Home Innovation Programme (CHIP)
Lancashire County Council	2016	Analysis of NWAS call outs to care homes – older people service user category
East Lancashire District North West Ambulance Service	2015	NWAS Cost savings per care home data
Airedale Digital Hub	2016	Audit of 30 GP referrals for Pendle Care Homes
Bain & Co	2016	Detail to support development of Vanguard Hypothesis Generation
Airedale Vanguard	2016	Value Proposition
AWC CCG/ANHSFT	2015	AWC Review of case notes to assess effectiveness of TM
Airedale Digital Hub	2016	Telehealth Jan 2016 current awareness
Airedale	2016	Bringing Healthcare Home. Final Report. Health Foundation. Shared Purpose
YHEC	2015 2015 2016	Telemedicine Service Evaluation and Economic Modelling Telemedicine in care homes in AWC. Clinical Governance Evauation of a Pilot project for the implementation of TM in CH in Bradford



Impact ...

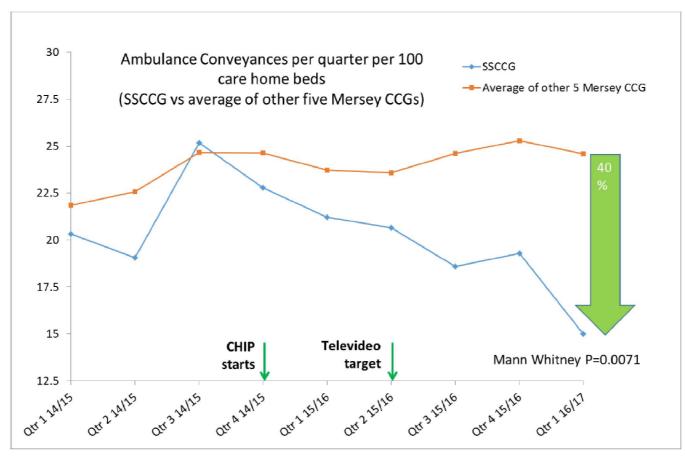


"THE GOOD NEWS 19, PROFITS ARE UP 74%, THE BAD NEWS 19, WE DON'T KNOW WHY,"

South Sefton CCG Care Homes Innovation Programme

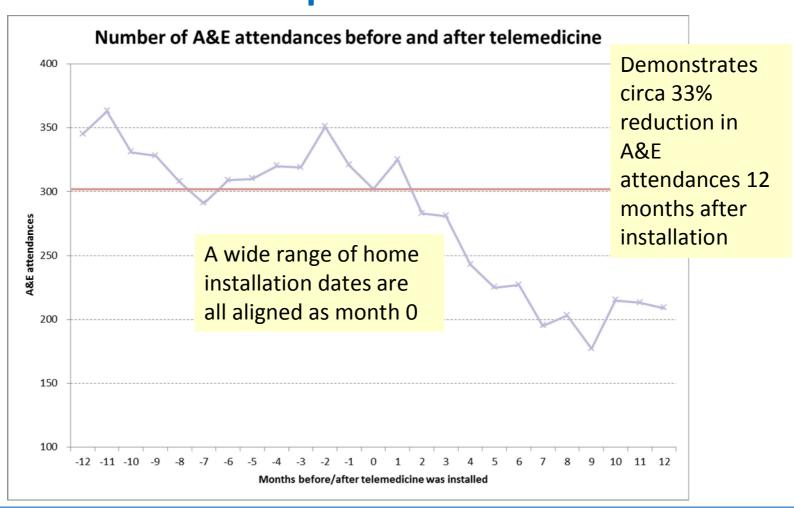






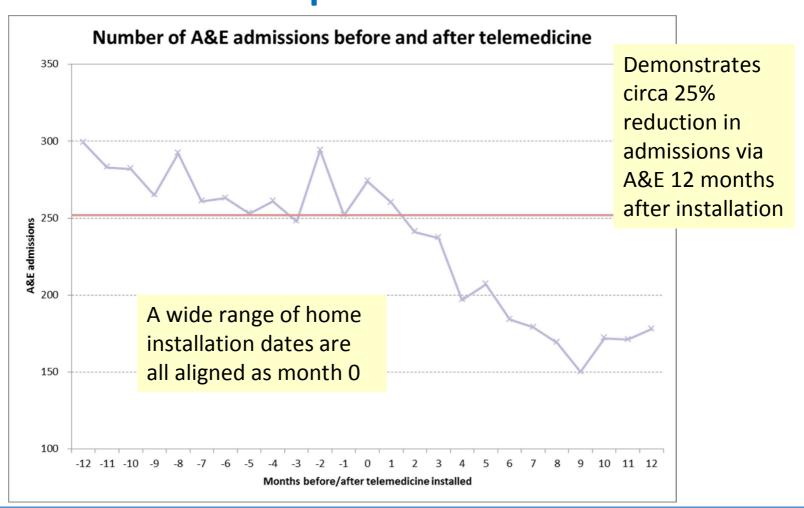


Care Homes in Bradford and Airedale Circa 130 homes Impact





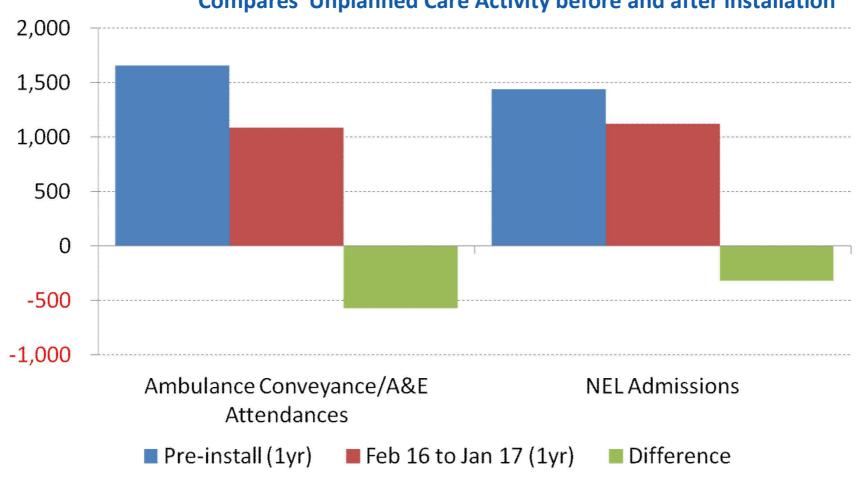
Care Homes in Bradford and Airedale Circa 130 homes Impact



Airedale Wharfedale Craven CCG care homes impact (n=51)



Compares Unplanned Care Activity before and after installation



Further potential



- Primary Care enhancement called GP Triage
 - In hours, care homes are prevented from requesting GP visits direct from GP Practices and must make a video-call to the Digital Hub for patient assessment
 - This service is changed at an additional £2,400 per home/year. Currently provided in circa 100 homes in East Lancashire, Dudley and Aylesbury.
- GP Video access to care homes via APP (extensive trial commencing in East Lancs April 17)
- MDT conferencing with Community Nurses, GPs, Digital Hub and Care Homes
- Virtual Training to Care Home Staff (already available in Bradford and Airedale)
- Provision in patient's own home
 - Identification of patients at high risk of hospital admission or readmission
 - Proactive Digital Hub care management via care plans
 - Linked to Community Nursing and GP care
 - Move equipment between high risk patients at 6 week intervals to improve cost effectiveness
- Diversion from NHS 111 and 999
 - Non emergency calls are intercepted and passed to the Digital Hub for assessment and management

Care Home Manager



"Telemedicine is brilliant, the staff are always using it, I hardly get any phone calls during the night, as she used to, staff would be lost without it",

"you know you are passing the responsibility onto Telemedicine".

Innovation potential



"The innovation that telemedicine promises is not just doing the same thing remotely that used to be done face to face, but awakening us to the many things that we thought required face to face contact, but actually do not."

David D Asch MD, MBA, Perelman School of Medicine, University of Pennsylvania

Scaled Average Care Homes Annual Savings WY and Harrogate STP



		Emanced fleath in Gare flomes varig	
	Good	Better	Best
Annual Savings per care home – Ambulance Journeys, A&E Attends and NEL Admissions	£9,600	£14,400	£19,200
Investment for 558 Care Homes Annually (average per locality) (£4,800 per Care Home)	£2.68M (£447k)	£2.68M (£447k)	£2.68M (£447k)
Annual Cash Releasing Benefits for 558 care homes	£5M	£7.8M	£10.6M
Additional benefit layer 1 (not included to date)		Avoided GP Call Outs	
Additional benefit layer 2 (not included to date)		Avoided community nursing visits & also link with Social care teams to optimise capacity.	
Additional benefit layer 3 (not included to date)		MDT working	
Additional benefit layer 4 (not included to date)		Virtual training and supervision of care home staff	

Questions



Technology Enabled Health - the art of the possible...

http://www.airedaledigitalcare.nhs.uk/





