

Additional file 4a: Coding framework (patients)

| Themes | Sub-themes |
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| 1. Establishing the 'norm' | <ul style="list-style-type: none"> • It is part of the routine • Establishing a pattern in the readings |
| 2. The pulse oximeter as a guide to wellbeing in real time | <ul style="list-style-type: none"> • Interpreting and differentiating the variations of symptoms |
| 3. Gaining control and response to the readings | <ul style="list-style-type: none"> • Adapting to life with COPD • "Some days I am better, some days I am worse" • Exploring the boundaries |
| 4. Less reliance on the healthcare professionals | <ul style="list-style-type: none"> • "The healthcare professionals does the exact same thing" • "The readings are for the healthcare professionals to see" • Some people don't like control |

Additional file 4b: Coding framework (health professionals)

| Themes | Sub-themes |
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| 1. Selection of patients to self-manage | <ul style="list-style-type: none"> • Identifying patient's self-management capabilities • Identifying patient's support network |
| 2. Pulse oximeter as a teaching tool | <ul style="list-style-type: none"> • Interpreting and differentiating the variations of symptoms • Ability to take action to self-medicate |
| 3. Awareness of the 'Light Touch' telemonitoring service | <ul style="list-style-type: none"> • Service awareness • Being seen as the expert in COPD |
| 4. Reorganisation of care | <ul style="list-style-type: none"> • Changes in the provision of service |
| 5. Loss of engagement | <ul style="list-style-type: none"> • Managing the risks/patient safety • Strategies to encourage patients to self refer |

Additional file 4c: Coding framework (managers)

| Themes | Sub-themes |
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| 1. Thinking of technology every part of the patient's pathway | <ul style="list-style-type: none">• Preparing staff and patients• New ways to assess and manage long-term conditions in an ageing population |
| 2. Awareness of the 'Light Touch' telemonitoring service | <ul style="list-style-type: none">• Service awareness – anticipated work overload• Individualised patient care |
| 3. Reorganisation of care | <ul style="list-style-type: none">• Florence service• Telehealthcare• Broad spectrum care• Lack of cost effective care model for NHS Lothian• Logistic of care – Who monitors? |