

Measurement plan – Community Spirometry V2.0

Name of Measure Specify which type of measure (e.g. percentage / count / rate / time) and what you are measuring. Indicate underneath whether it's an Outcome (O), Process (P) or Balancing (B) measure	Concept being measured and why it's important to look at this What is the purpose of this measure? i.e. what questions do you want answered in relation to your improvement efforts? What goals are you trying to achieve? Where relevant, describe how the measure contributes to sustainable value (Environmental, Social, Financial)	Operational definition Clear, precise definition of the measure and how it is calculated. Include numerator and denominator if it's a % or rate. What / who is included or excluded?	Data Collection Who is collecting it? How often and when? Where is the data coming from? What's the sampling method and sample size (if used)?	What type of Chart? What type of chart will you use?
Outcome Number of spirometry investigations delivered in community settings across South Ayrshire	This will provide evidence that the target of the aim is being met as each additional base joins the test of change	Cumulative count: spirometry investigations Combined graph for all bases involved Also graph for each base to identify if any improvements are required	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly Where is the data coming from? Admin spreadsheet at Spirometry Clinic What's the sampling method and sample size (if used)? All patients attending spirometry clinic	
Outcome Number of spirometry investigations confirming a diagnosis of COPD	This will provide evidence if COPD can be diagnosed correctly without a spirometry test	Cumulative count: spirometry investigations confirming a diagnosis of COPD Combined graph for all bases involved Also graph for each base to identify if any improvements are required	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly Where is the data coming from? Admin spreadsheet at Spirometry Clinic What's the sampling method and sample size (if	

Measurement plan – Community Spirometry V2.0

			used)? All patients attending spirometry clinic	
<p>Outcome</p> <p>Percentage of patients diagnosed at mild, moderate and severe COPD</p>	<p>This will show whether community spirometry is capturing patient at mild, moderate or severe state</p>	<p>Numerator: Number of patient diagnosed with COPD at mild</p> <p>Numerator: Number of patient diagnosed with COPD at moderate</p> <p>Numerator: Number of patient diagnosed with COPD at severe</p> <p>Denominator: number of patients diagnosed with COPD</p>	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p> <p>Where is the data coming from? Admin spreadsheet at Spirometry Clinic</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	Stacked graph
<p>Outcome</p> <p>Number of spirometry investigations discounting a diagnosis of COPD</p>	<p>This will provide evidence that COPD cannot be diagnosed correctly without a spirometry test</p>	<p>Cumulative count: spirometry investigations discounting a diagnosis of COPD</p>	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p> <p>Where is the data coming from? Admin spreadsheet at Spirometry Clinic</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	
<p>Outcome</p> <p>Number of spirometry investigations carried out on patients with new symptoms suggestive of COPD</p>	<p>Provision of evidence that community spirometry clinic is being used appropriately</p>	<p>Cumulative count: spirometry investigations on patients with new symptoms suggestive of COPD</p>	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p> <p>Where is the data coming from? Admin spreadsheet at Spirometry Clinic</p>	

Measurement plan – Community Spirometry V2.0

			What's the sampling method and sample size (if used)? All patients attending spirometry clinic	
Outcome Number of patients with a new diagnosis of COPD	Provision of evidence that community spirometry clinic is being used appropriately	Cumulative count: Number of patients with a new diagnosis of COPD	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly Where is the data coming from? Admin spreadsheet at Spirometry Clinic What's the sampling method and sample size (if used)? All patients attending spirometry clinic	
Outcome % of spirometry investigations which were incomplete	This will provide evidence that community spirometry testing is suitable for patients who are suspected of having COPD	Numerator: Number of incomplete investigations (failed tests) Denominator: Number of spirometry investigations carried out at clinic	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly Where is the data coming from? Admin spreadsheet at Spirometry Clinic What's the sampling method and sample size (if used)? All patients attending spirometry clinic	
Outcome Number of weeks waiting for a hospital spirometry test compared with waiting for community testing	Provision of evidence that community spirometry testing will reduce the waiting time for hospital spirometry test. Will also provide evidence of early diagnosis and intervention of COPD within the community	Count: monthly number of weeks/days waiting for hospital spirometry test from date of referral (BI, TBC) Annotated with start of Community Project	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly Where is the data coming from? TBC	

Measurement plan – Community Spirometry V2.0

		Count: number of weeks/days waiting for community spirometry test from date of referral (David Rae)	What's the sampling method and sample size (if used)? All patients waiting on hospital waiting list AND All patients referred to community spirometry clinic	
Outcome Number of General Practices referring to community Spirometry clinic, including number of referrals	Provision of evidence that spirometry testing is available to all patients within South Ayrshire and GP are engaging in the project	Count: number of referrals from each referring General Practice	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly Where is the data coming from? Admin spreadsheet at Spirometry Clinic What's the sampling method and sample size (if used)? All patients attending spirometry clinic	Pareto chart showing which General Practices are referring along with number of referrals
Process Smoking status of patients where COPD has been confirmed or suspected	Evidence association between smoking and COPD	Cumulative count: number of patients with a smoking status compared to COPD confirmed or discounted	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly Where is the data coming from? Referral form / Admin spreadsheet What's the sampling method and sample size (if used)? All patients attending spirometry clinic	Data table
Process % of patients who smoke and convert to non	Has confirmation of COPD diagnosis altered smoking status	Numerator: Number of patients diagnosed with COPD who smoke and then convert to non smoking	Who is collecting it? Spirometry Clinic & David Rae How often and when? Monthly	



Measurement plan – Community Spirometry V2.0

<p>smoking following diagnosis</p> <p>% of patients who smoke and are referred to Quit Your Way</p>		<p>Numerator: Number of patients who smoke and are referred to Quit your way</p> <p>Denominator: Number of patients diagnosed with COPD who smoke</p>	<p>Where is the data coming from? Referral Form / Admin spreadsheet</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	
<p>Process</p> <p>Percentage of COPD diagnosed patients who have had environmental exposure</p>	<p>Evidence association between environmental exposure and COPD.</p> <p>Themes showing environmental factors</p>	<p>Numerator: Number of patients diagnosed with COPD who have had environmental exposure</p> <p>Denominator: Number of patient diagnosed with COPD</p> <p>Pareto chart showing environmental exposure contributing factors</p>	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p> <p>Where is the data coming from? Referral form /Admin spreadsheet</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	<p>Run chart And Pareto chart</p>
<p>Process</p> <p>% of patients who require a translator</p>	<p>Evidence showing that community spirometry testing is accessible for all</p>	<p>Numerator: Number of patients who required a translator</p> <p>Denominator: Number of patients attending spirometry clinic</p> <p>Pareto chart showing language(s) spoken</p>	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p> <p>Where is the data coming from? Referral form / Admin Spreadsheet</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	<p>Run chart and pareto chart</p>
<p>% of appointment outcome status of community spirometry clinic</p>	<p>Accessibility and efficiency of spirometry clinic</p>	<p>Histogram showing DNA, attended, cancelled, rescheduled, unused appointment</p>	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p>	



Measurement plan – Community Spirometry V2.0

			<p>Where is the data coming from? Spirometry clinic data spreadsheet</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	
% of patients who did not complete the test	This will provide evidence on how many tests are not completed and provide the reasons why	Histogram showing reason for non-completion of test. For example Patient unwell, Equipment failure, Environmental issues, Medical contra indications, Patient refused.	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p> <p>Where is the data coming from? Spirometry clinic admin spreadsheet</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	
% of spirometry tests which had good or poor technique	Evidence around effectiveness of spirometry testing	<p>Numerator: Number of patients who had good technique</p> <p>Numerator: Number of patients who had poor technique</p> <p>Denominator: Number of patients who completed spirometry test</p>	<p>Who is collecting it? Spirometry Clinic & David Rae</p> <p>How often and when? Monthly</p> <p>Where is the data coming from? Admin spreadsheet at Spirometry Clinic</p> <p>What's the sampling method and sample size (if used)? All patients attending spirometry clinic</p>	
Process Patient feedback	Engagement team and Project Support Officer creating Smart survey		<p>Who is collecting it?</p> <p>How often and when?</p> <p>Where is the data coming from? Smart Survey</p>	



Measurement plan – Community Spirometry V2.0

			What's the sampling method and sample size (if used)? All patients attending spirometry clinic	
Process GP Feedback	Engagement team and Project Support Officer creating Smart survey		Who is collecting it? How often and when? Where is the data coming from? Smart Survey What's the sampling method and sample size (if used)? All patients attending spirometry clinic	
Balancing Number of patients presenting at ED and CAU due to COPD condition	Has early diagnosis of COPD had an impact on presentations at ED and CAU	Count: number of patients with COPD presenting at ED and CAU with a COPD related condition	Who is collecting it? David Rae How often and when? Annual Where is the data coming from? BI What's the sampling method and sample size (if used)? All patients attending spirometry clinic	

