



***Cancer Survivorship:  
Improving Quality of care for  
Patients with Lung Cancer***

SCN NCIN Lung Workshop

Feb 2011

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Lead for Lung Cancer

Brighton and Sussex University Hospitals NHS Trust

# Background

- BSUH NHS Trust:
  - Royal Sussex County Hospital
  - Princess Royal Hospital (Haywards Heath)
  - (Lewes Victoria Hospital)
  - (Brighton General Hospital)
- Catchment population ~ 500 000
- ~250 new cases per year of lung cancer (75% RSCH/25% PRH)



# Lung Cancer in Sussex Cancer Network

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- ~220-250 new cases per year at BSUH

Trust	Primaries	Recurrences	Metastases	Benign	All Cases
BSUH	225			3	228
EDGH	126				126
CONQ	150				150
Worthing	169	3	6		178
Network	670	3	6	3	682

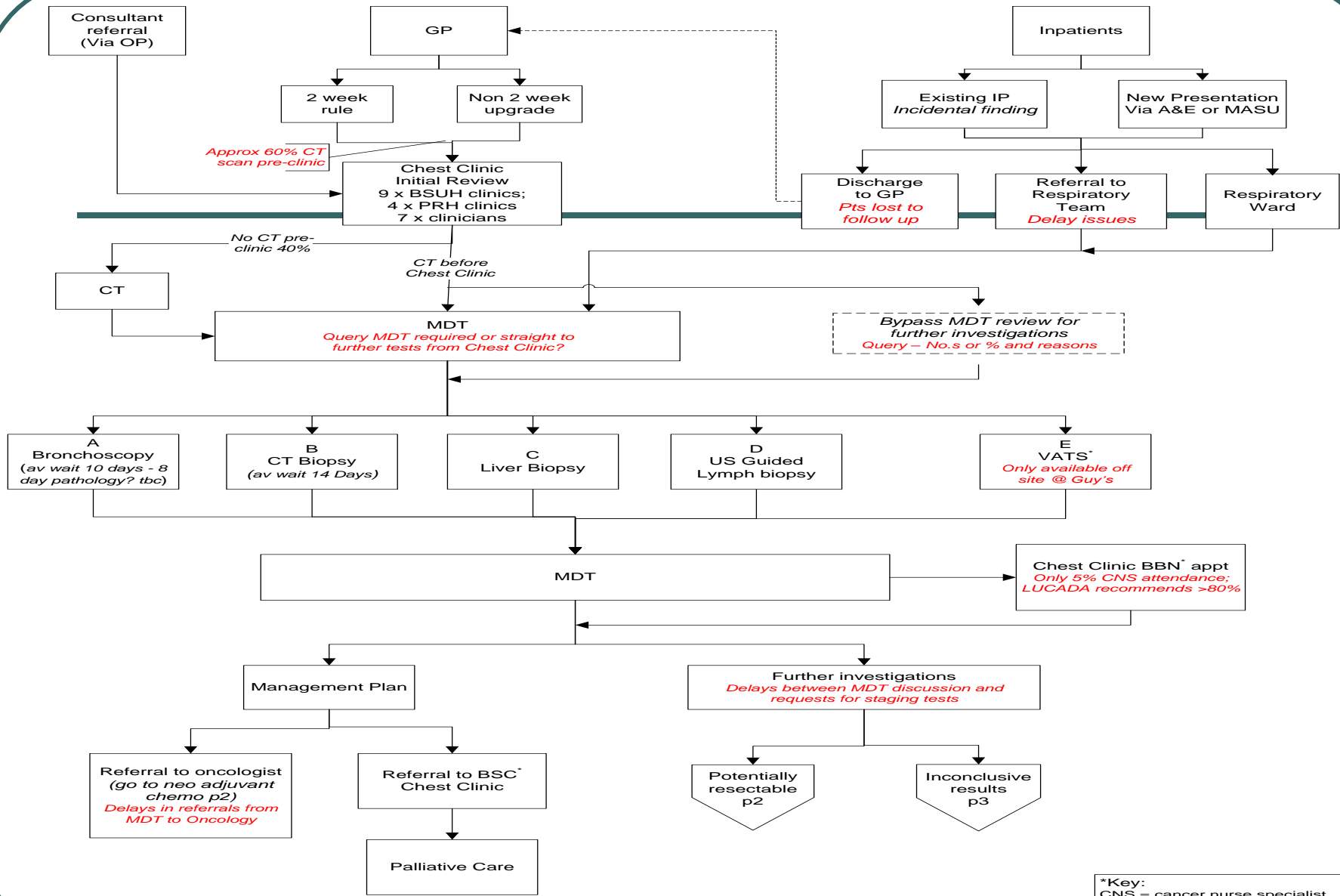
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# **The Cancer Pathway - BSUH**

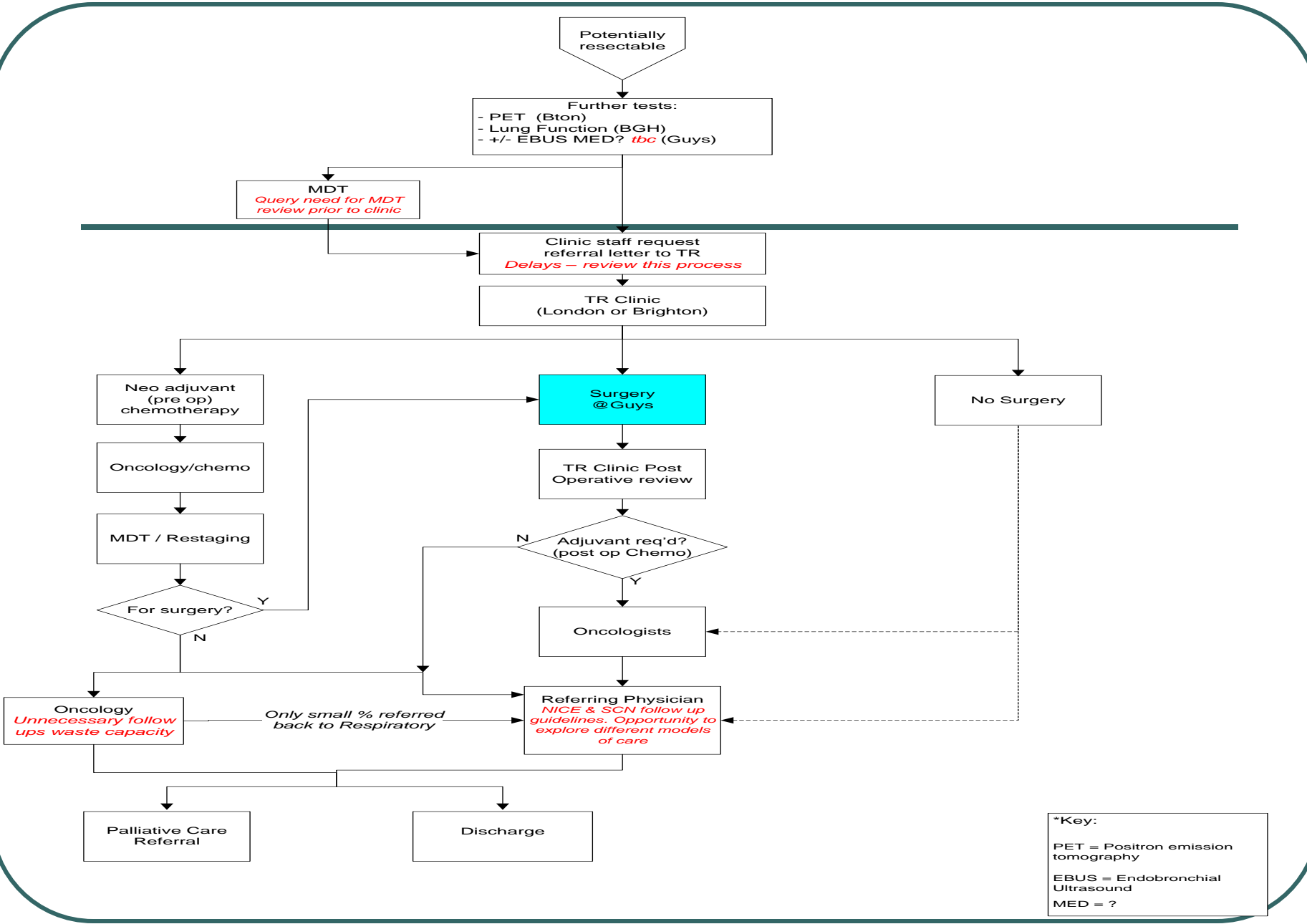
# Local Issues

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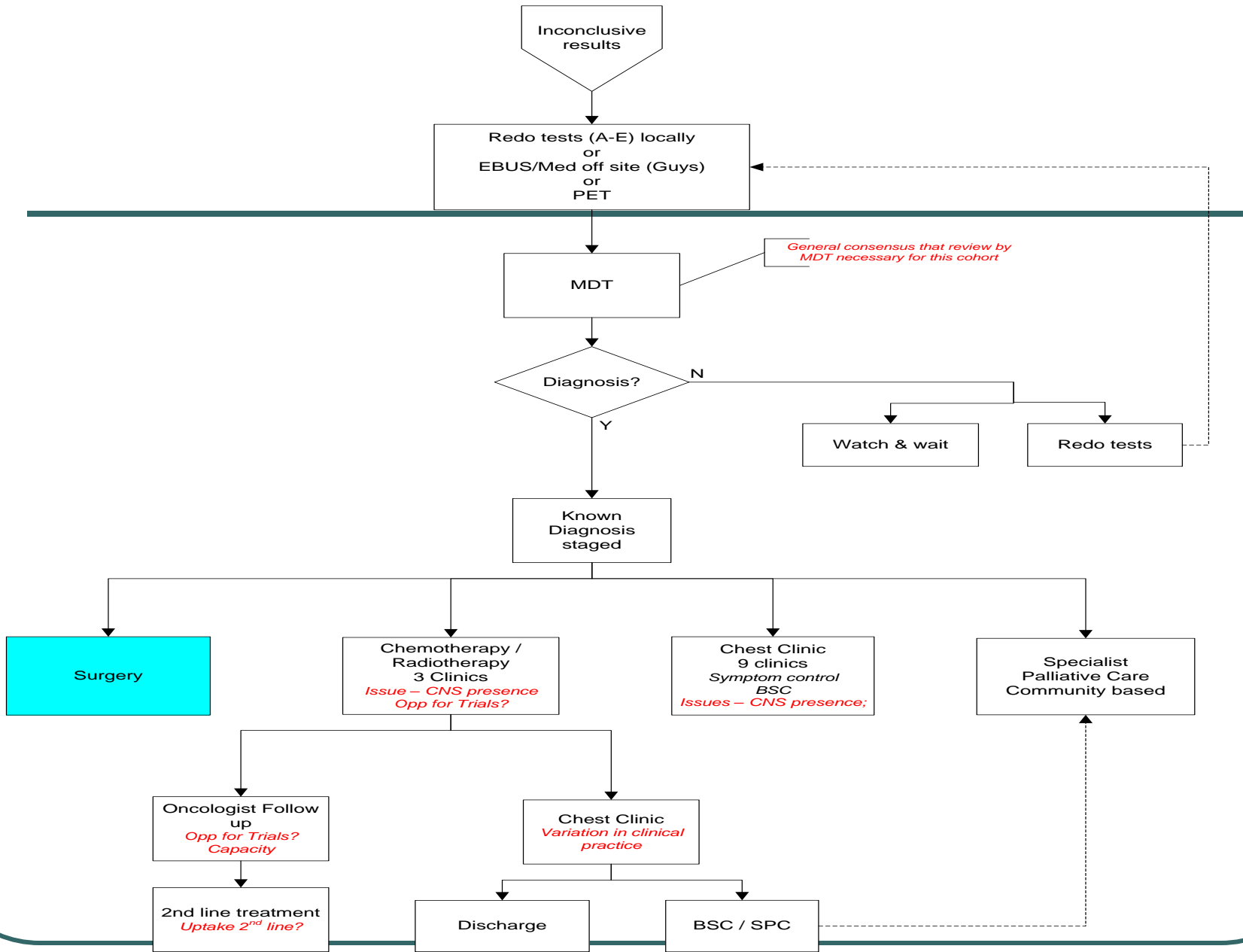
- Process mapping exercise, January 2010
  - All members of the team involved in care of patients with lung cancer
    - Clinicians (MDT)
    - Nurse specialists
    - Admin support – secretarial/clinic clerk/outpatient team
    - Pathway coordinator
    - Trust Management
    - Sussex Cancer Network Service Improvement Team



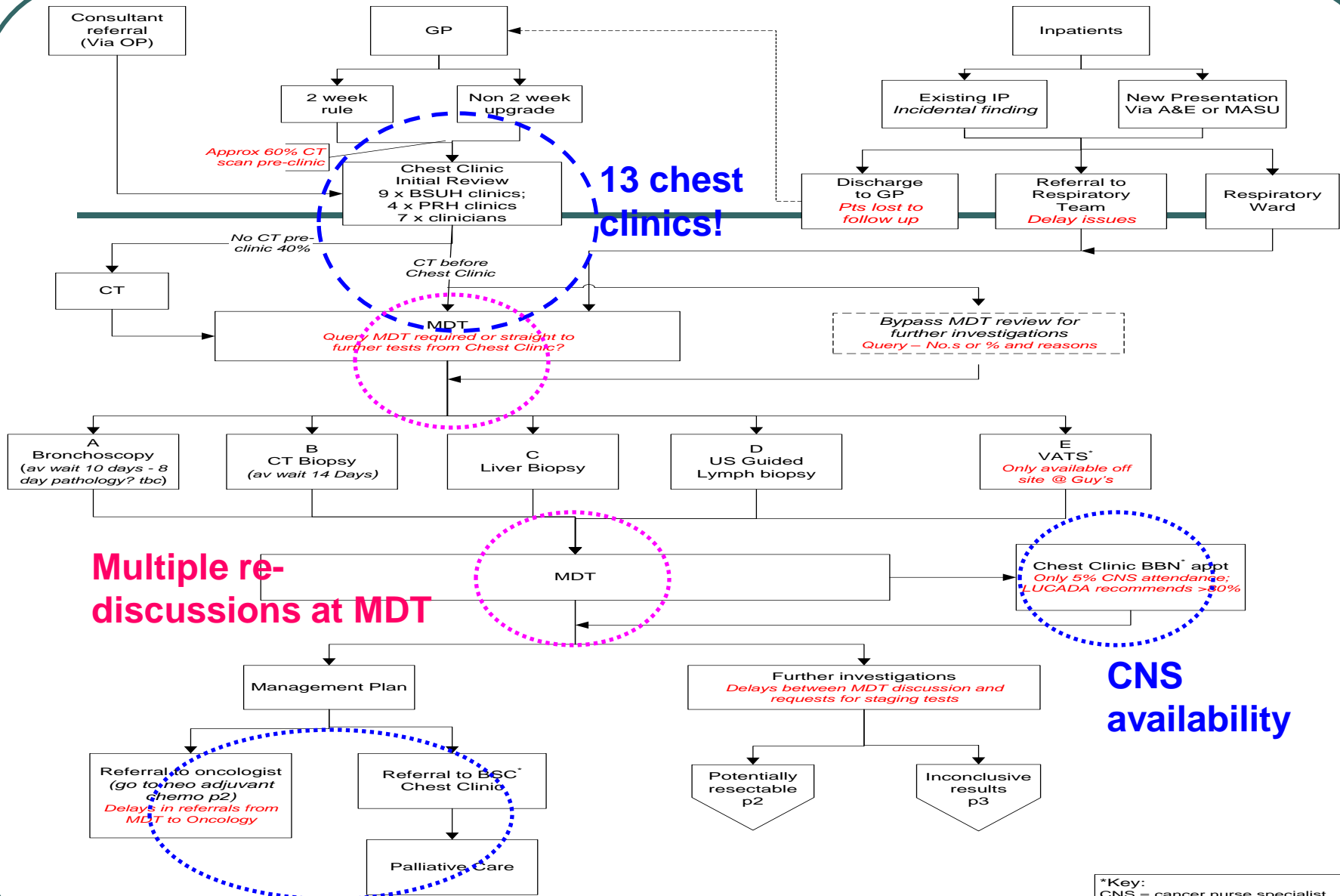
**\*Key:**  
 CNS = cancer nurse specialist  
 VATS = video assisted thorascopic lobectomy  
 BBN = breaking bad news  
 BSC = best supportive care



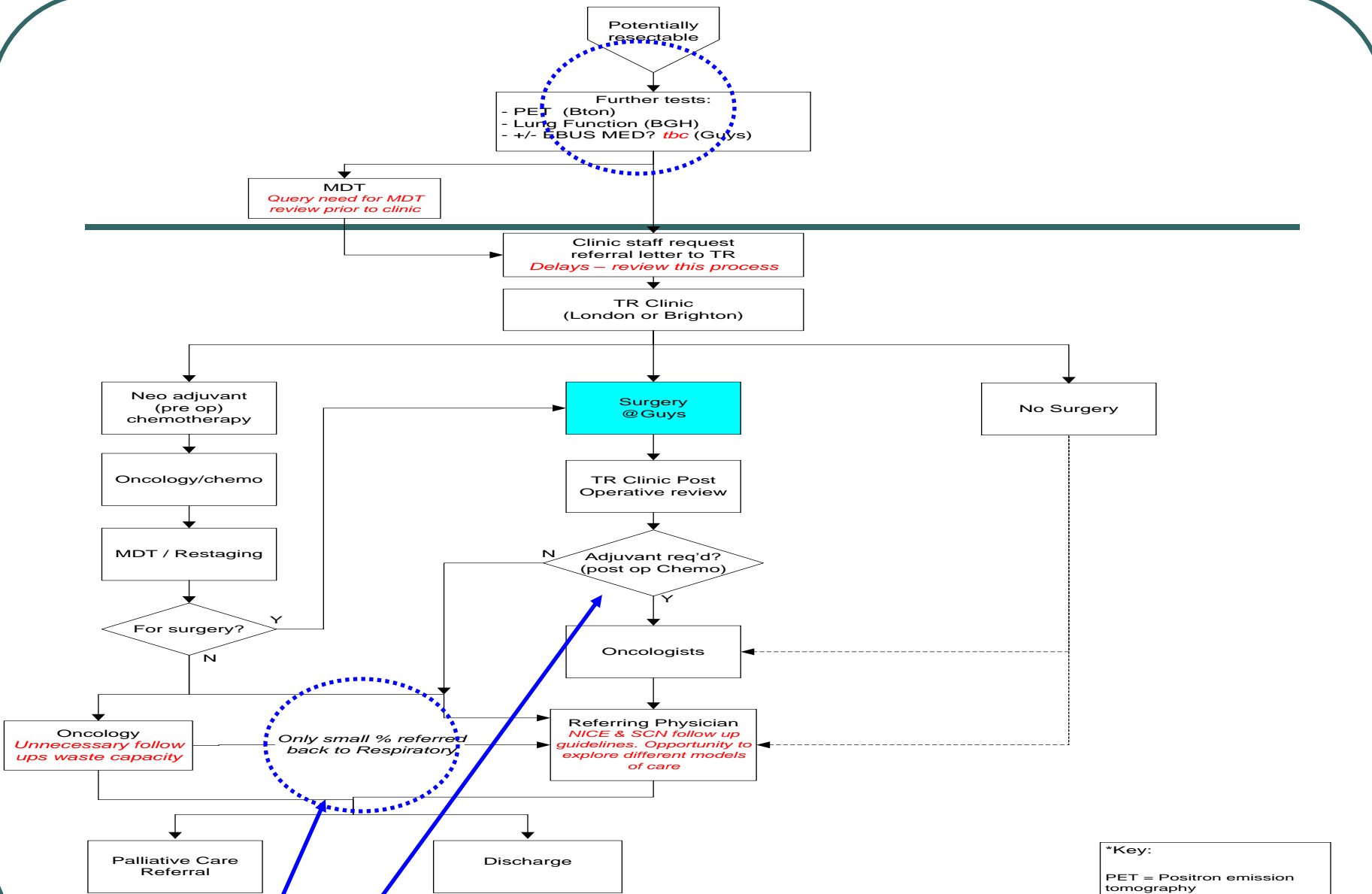
**\*Key:**  
 PET = Positron emission tomography  
 EBUS = Endobronchial Ultrasound  
 MED = ?





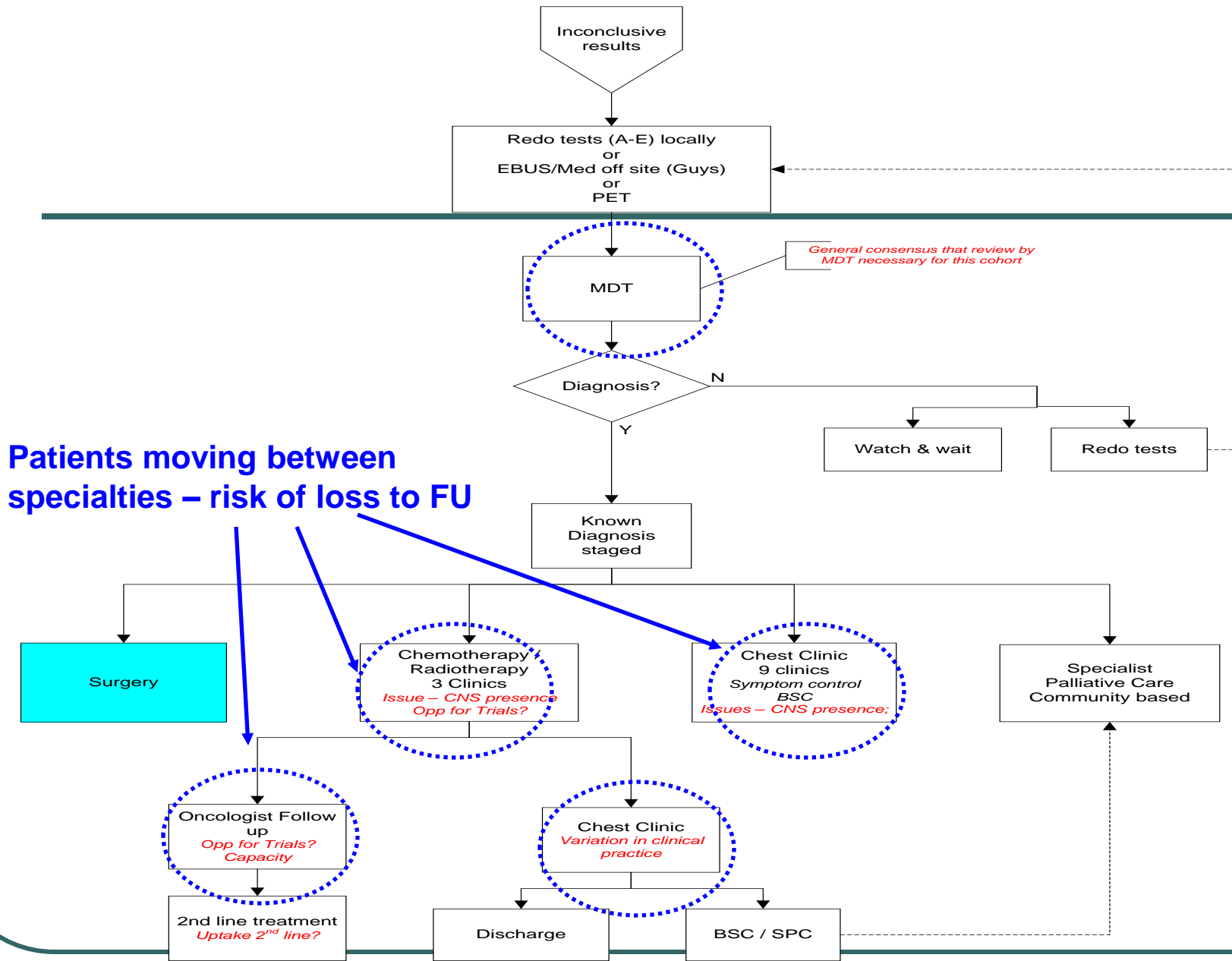


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**Patients moving between specialties – risk of loss to FU**

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 MED = ?



**Patients moving between specialties – risk of loss to FU**

*General consensus that review by MDT necessary for this cohort*

*Issue – CNS presence  
Opp for Trials?*

*Issues – CNS presence;*

*Opp for Trials? Capacity*

*Uptake 2nd line?*

*Variation in clinical practice*

# Local Issues

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- Lack of Macmillan CNS presence at clinic (first OPA and BBN)
  - BBN < 5% attendance – 7 clinicians, 9 clinics at RSCH, 4 at PRH!
- Delays in referral between specialties (e.g. resp to oncology)
- Lost to follow up – referral back to resp after active treatment complete
- Patient uncertainty re who is looking after them
- Lack of available capacity in oncology clinics (patients not having active therapy)
- Potentially avoidable “routine” follow-ups

## **Local Issues**

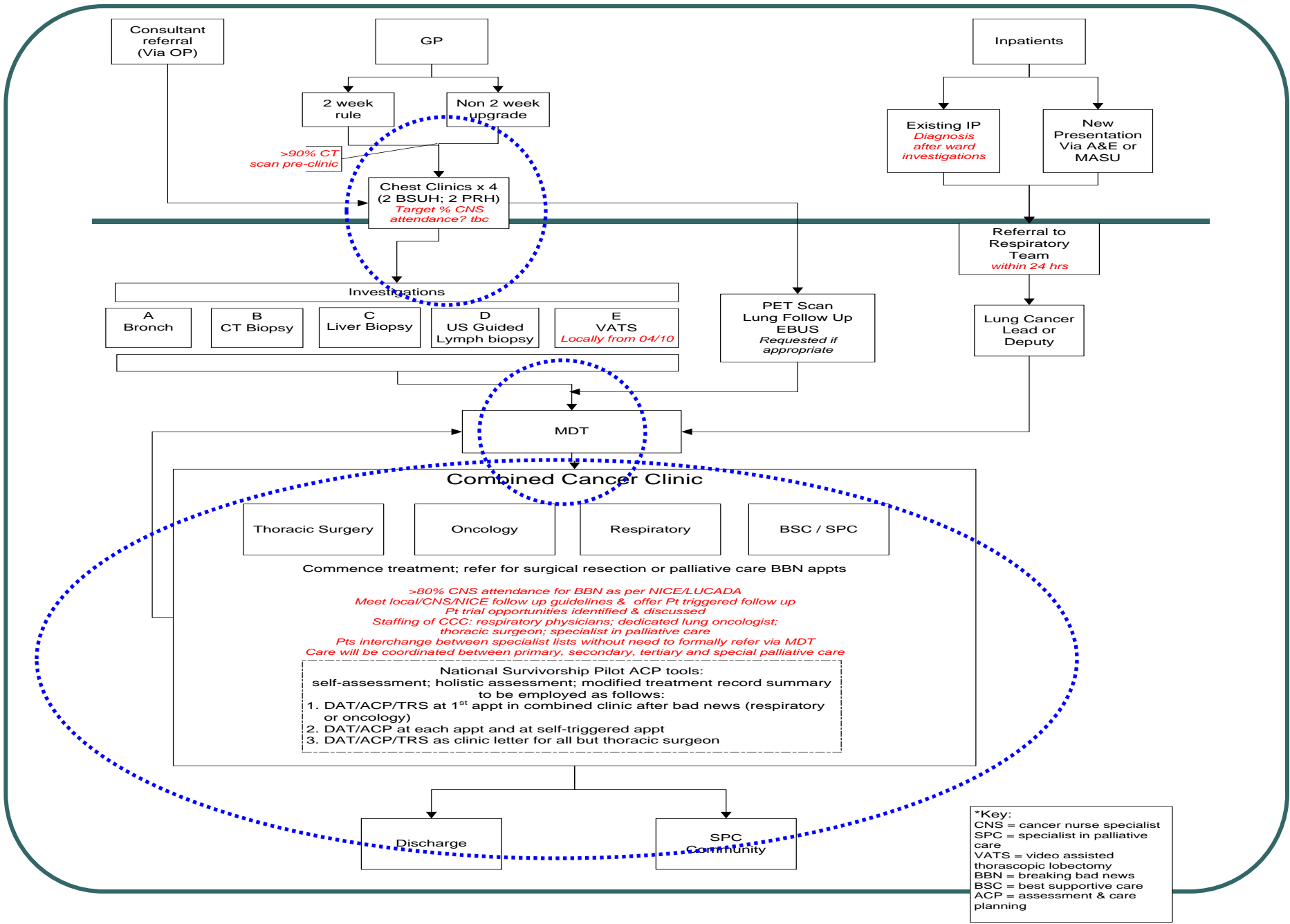
***(outside the remit of this project)***

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- Patients having to travel off-site for diagnostic tests and treatment
- Need for psychological input plus other ancillary services (physio/dietician etc) to lung cancer service not part of core MDT

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# **Redesign of patient pathway**



# The Project at BSUH

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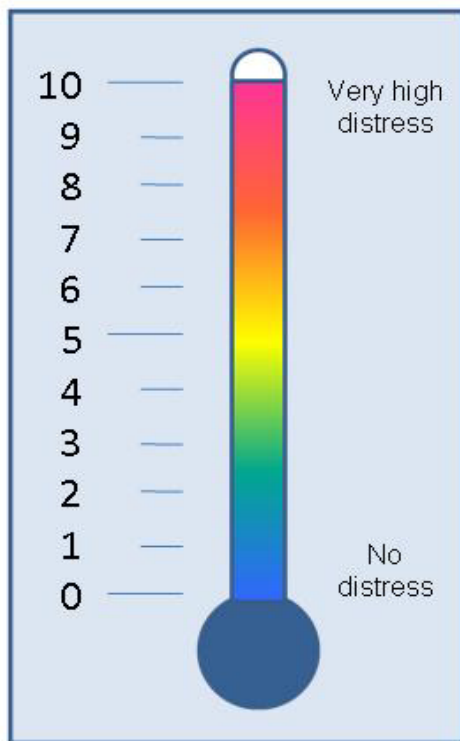
- Combined cancer clinic (CCC)
  - 2 respiratory physicians +/- SpR
  - 1 specialist palliative medicine consultant
  - 2 Macmillan lung CNS
  - some input from oncology
- Treatment Record Summary (TRS) and Assessment and Care Plan (ACP) at each appointment subsequent to breaking bad news
  - Electronic TRS and ACP developed (Access® database able to generate reports)
  - Clinic letter generated from database – printed off in clinic and given to patient/faxed to GP/community teams
  - Distress Assessment Thermometer (DAT) completed at each attendance – validated and well-used holistic assessment tool



# Distress Thermometer

Patient details  
(or space for label)

1. Please mark on the thermometer the number (between 0 and 10) that best shows how much distress you have felt in the past week overall, including today:



September 2009

2. Please tick any of the following that has been a problem for you over the past week, including today:

### Practical problems

- Care of children and/or relative
- Housing
- Money
- Transport
- Work and/or school

### Family problems

- Relationship with partner
- Relationships with children

### Emotional problems

- Worry
- Sadness
- Anger
- Guilt
- Depression
- Nervousness

### Spiritual or religious concerns

- Loss of faith
- Loss of meaning or purpose in life

### Physical problems

- Appearance
- Bathing/dressing
- Breathing
- Changes in urination
- Constipation
- Diarrhoea
- Eating
- Fatigue/tiredness
- Feeling swollen/lymphoedema
- Fever
- Getting around/restricted movement
- Indigestion
- Memory/concentration
- Mouth sores
- Nausea
- Nose dry/congested
- Pain
- Sexual
- Skin dry/itchy
- Sleep
- Tingling in hands/feet
- Taste in mouth

3. Please list your overall top three problems from the selection above:

a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_

# Treatment Record Summary

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- Standard template generated from Access database
- Summary page 1:
  - Current disease stage/histology/date of diagnosis
  - Treatment received, treatment intent, response to Rx
  - Performance status, DAT score
  - Actions required by GP
- Page 2
  - Alert symptoms
  - Contact numbers
  - Follow up plans and Gold Standards Framework
- Include READ codes?

# Assessment and Care Plan

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- Summary diagnosis/treatment etc populated from TRS
- Psychological/spiritual – QOL, fears, hopes
- Social – needs, financial/benefits, carers
- Self-management programmes, resus decision, referrals made

# The Project at BSUH

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- Patients able to self-trigger into clinic as needed and be seen within 1 week
- Patients on >2<sup>nd</sup> OPA in CCC contacted by Macmillan nurses week prior to appt to see if need to attend.
- Appt cancelled if not and rearranged – frees up capacity for self/professional triggered slots
- Clinic slots lengthened to enable time for ACP to be completed

# National Measures

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- Tribal
  - GP satisfaction with TRS
  - Patient satisfaction with TRS/ACP
  - Impact on communication with community teams
  - Patient focus group
- >100 patients enrolled

# Local Measures

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- **Impact of CCC on satisfaction**
  - Baseline satisfaction survey of sample of patients seen in old style clinics
  - To repeat satisfaction survey with sample from CCC

# Local Measures

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- **Impact of ACP framework on unscheduled emergency admissions to hospital**
  - Baseline data on lung cancer-related admissions Jan-Jun 2008/Jan-Jun 2009
  - Prospective data collection on similar for Jan-Jun 2010 (note made of whether patients within CCC)

# Local Measures

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- Number of referrals made outside the MDT and time from referral to review
  - Date referral made captured in electronic TRS
  - Total referrals outside MDT collected



## Local Measures

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- Changes to Distress Thermometer scores over time during participation in project (impact of use of ACP and CCC on distress)
  - DAT scores recorded at each attendance (scheduled/unscheduled) at hospital

# Local Measures

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- **Impact of self-triggered assessment on routine clinic attendance**
  - Nature of appt recorded (routine/self-triggered/cancelled)
  - If self-triggered/cancelled, reason documented
  - (Economic appraisal work)

# Local Measures

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- **DNA rate in clinic**
  - Impact on cost of care
    - Trust management team keen to monitor impact on costs – need to renegotiate tariff
    - (clinic slots extended to 30 mins for new 2WW/follow-up, protected slots (not overbooked))

## **Baseline Patient Satisfaction Survey**

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- Generally a high level of satisfaction with the service
- Room for improvement:
  - 25% patients felt that their worries about their condition were not discussed
  - 30% felt that they/their carers were not given enough info

# Results

## Patient Satisfaction Survey

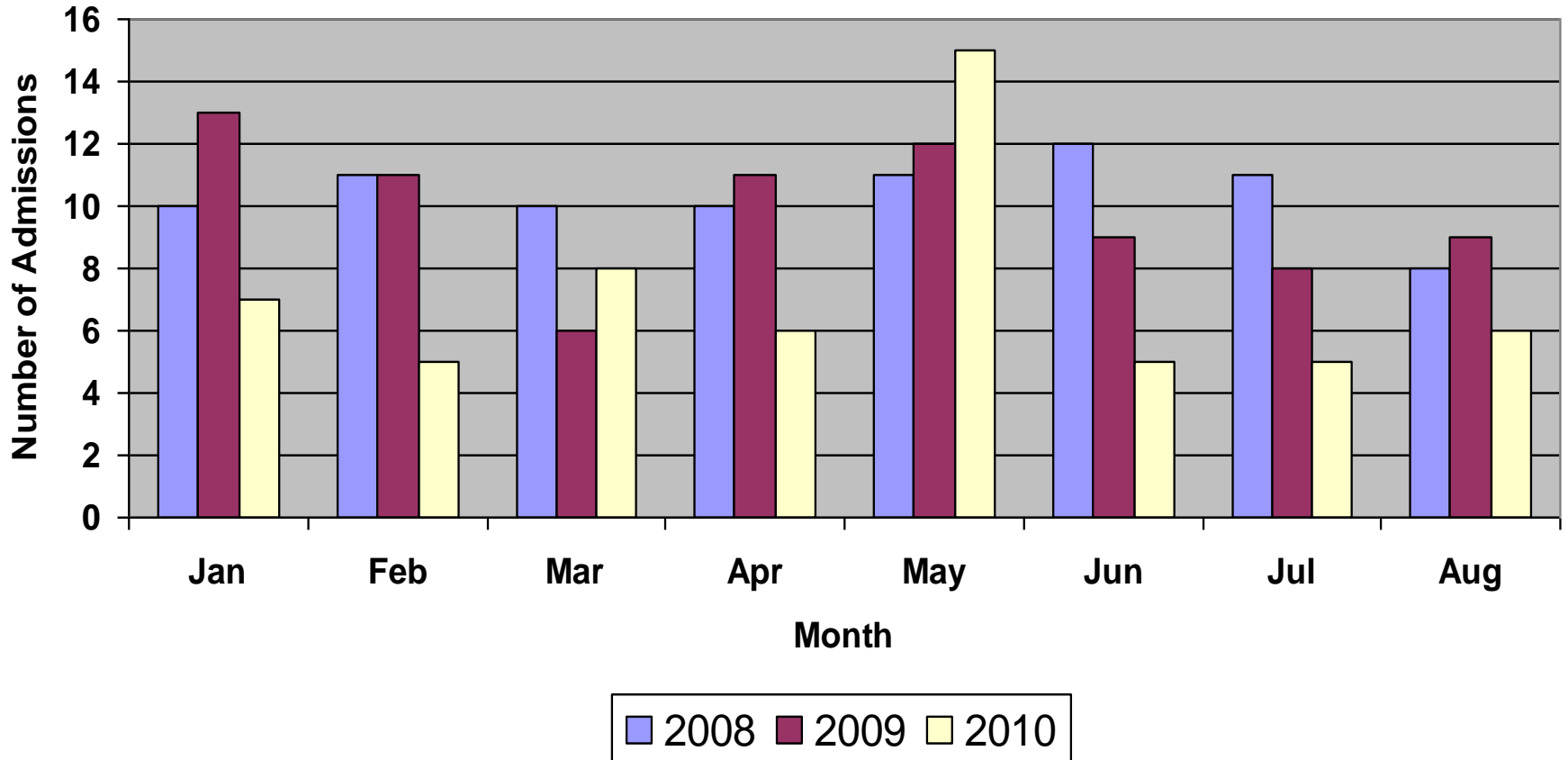
Question	Answer	Response Round 1 Number (%)	Response Round 2 Number (%)
If you had important questions to ask the doctor, did you get answers that you could understand?	<b>Yes, definitely</b>	<b>5 (42)</b>	<b>12 (67)</b>
	Yes, to some extent	3 (25)	1 (6)
	No	0	0
	I did not need to ask	1 (8)	2 (11)
	I did not have an opportunity to ask	0	0
While you were in the Outpatients Department, how much information about your condition or treatment was given to you?	Missing/N/A	2 (17)	3 (17)
	<b>Not enough</b>	<b>4 (33)</b>	<b>0</b>
	<b>Right amount</b>	<b>7 (58)</b>	<b>17 (94)</b>
	Too much	0	0
How much information about your condition or treatment was given to your family, carer or someone close to you?	I was not given any information	0	0
	Missing/N/A	1 (8)	1
	<b>Not enough</b>	<b>3 (25)</b>	<b>0</b>
	<b>Right amount</b>	<b>5 (42)</b>	<b>14 (78)</b>
	Too much	0	0
	No family/carer/friends were involved	3 (25)	3 (17)
If you had any worries or fears about your condition or treatment, did a doctor discuss them with you?	They didn't want/need information	0	0
	I didn't want them to have any information	0	0
	Don't know/can't say/missing	1 (8)	1 (6)
	<b>Yes, completely</b>	<b>5 (42)</b>	<b>12 (67)</b>
	Yes, to some extent	1 (8)	2 (11)
If you had any worries or fears about your condition or treatment, did a doctor discuss them with you?	<b>No</b>	<b>3 (25)</b>	<b>1 (6)</b>
	I did not have any worries	1 (8)	0
	Missing/N/A	2 (17)	3 (17)

<p><b>Were you involved as much as you wanted to be in decisions about your care and treatment?</b></p>	<p><b>Yes, definitely</b>  Yes, to some extent  No  Missing</p>	<p><b>7 (58)</b>  2 (17)  2 (17)  1 (8)</p>	<p><b>16 (89)</b>  1 (6)  0  1 (6)</p>
<p><b>Did you receive copies of letters sent between hospital doctors and your family doctor (GP)?</b></p>	<p><b>Yes, as far as I know I received copies of all letters</b>  I received copies of some but not all letters  No, I did not receive copies of any letters  I do not know if any letters were sent  I asked not to receive copies of letters</p>	<p><b>3 (25)</b>  5 (42)  3 (25)  1 (8)  0</p>	<p><b>14 (78)</b>  1 (6)  1 (6)  2 (11)  0</p>
<p><b>Was the main reason you went to the Outpatients Department dealt with to your satisfaction?</b></p>	<p><b>Yes, completely</b>  Yes, to some extent  No</p>	<p><b>7 (58)</b>  4 (33)  1 (8)</p>	<p><b>17 (94)</b>  1 (6)  0</p>
<p><b>How well organised was the Outpatients Department you visited?</b></p>	<p>Not at all organised  Fairly well organised  <b>Very well organised</b></p>	<p>1 (8)  5 (42)  <b>6 (50)</b></p>	<p>0  3 (17)  <b>15 (83)</b></p>
<p><b>Overall, how would you rate the care you received at the Outpatients Department?</b></p>	<p><b>Excellent</b>  <b>Very good</b>  Good  Fair  Poor  Very poor</p>	<p><b>5 (42)</b>  <b>3 (25)</b>  <b>2 (17)</b>  <b>1 (8)</b>  <b>1 (8)</b>  0</p>	<p><b>11 (61)</b>  <b>7 (39)</b>  0  0  0  0</p>

# Impact of CCC on unscheduled admissions

	Total bed days used (LOS x number of admissions) 2008+2009 (average)	Total bed days used (LOS x number of admissions) 2010
Jan	74.75	49
Feb	82.5	60
Mar	156	48
Apr	162.75	78
May	103.5	180
Jun	120.75	60
Jul	114	45
Aug	80.75	48
<b>Total</b>	<b>895</b>	<b>568</b>

## Overall Emergency/Unscheduled Admissions to BSUH with a Diagnosis of Lung Cancer

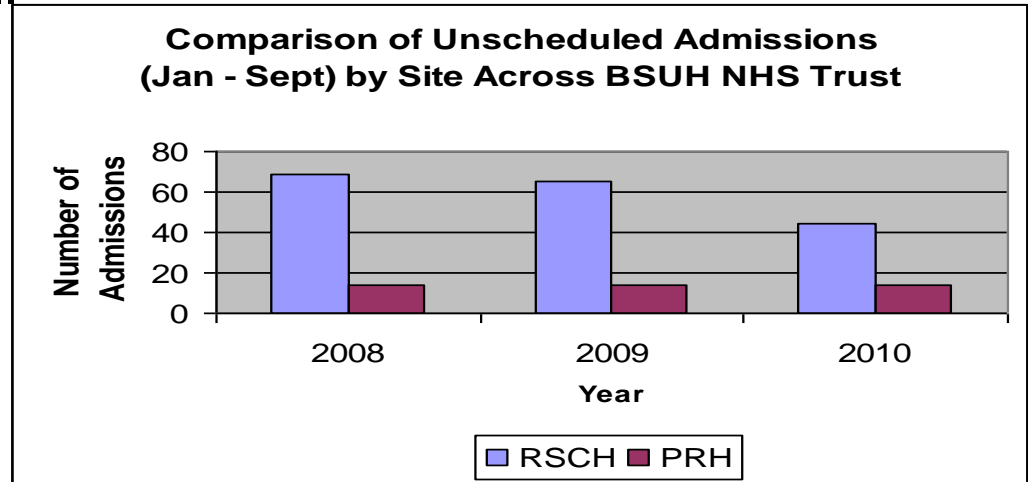




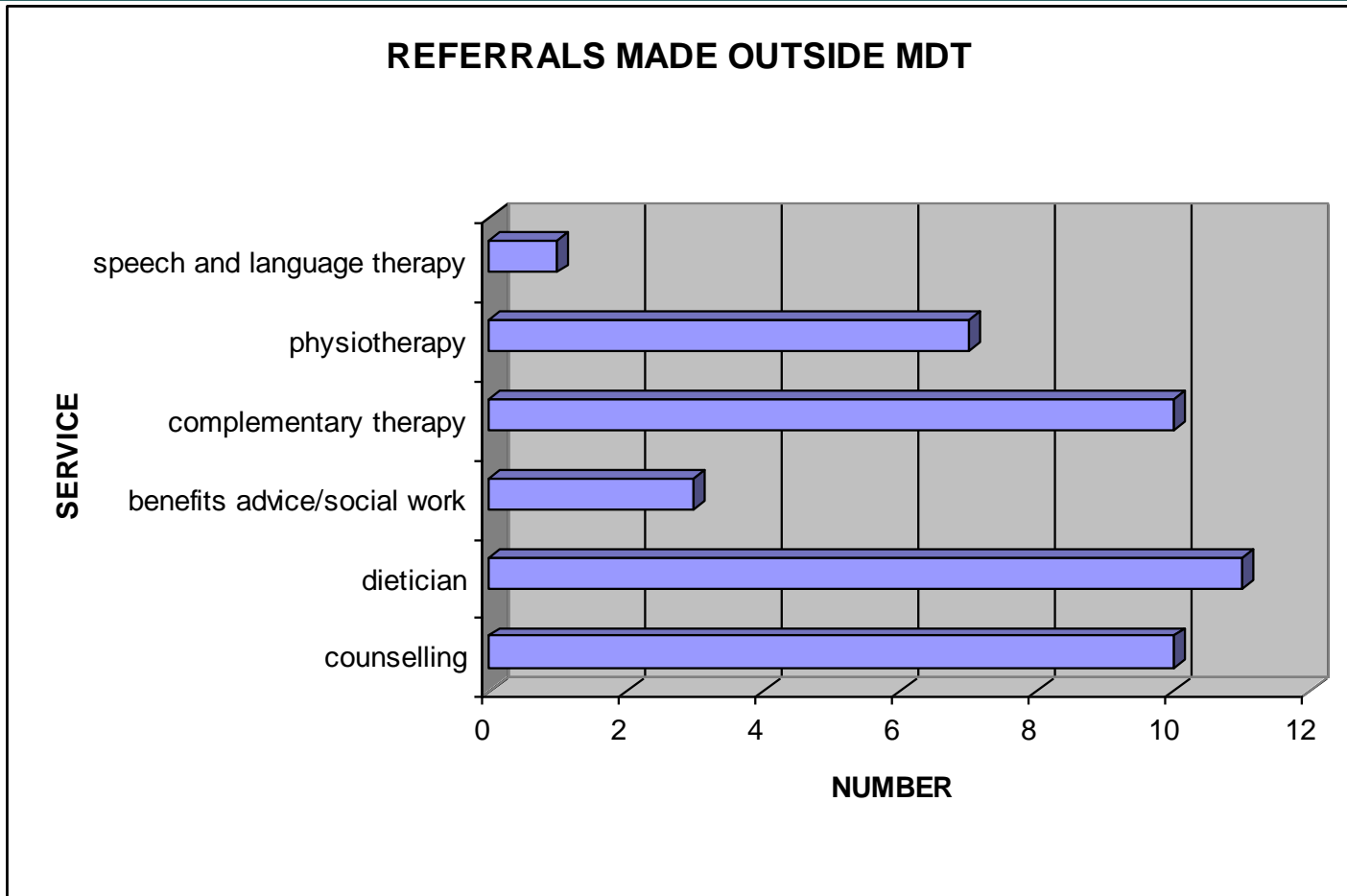
# Impact of CCC on unscheduled admissions

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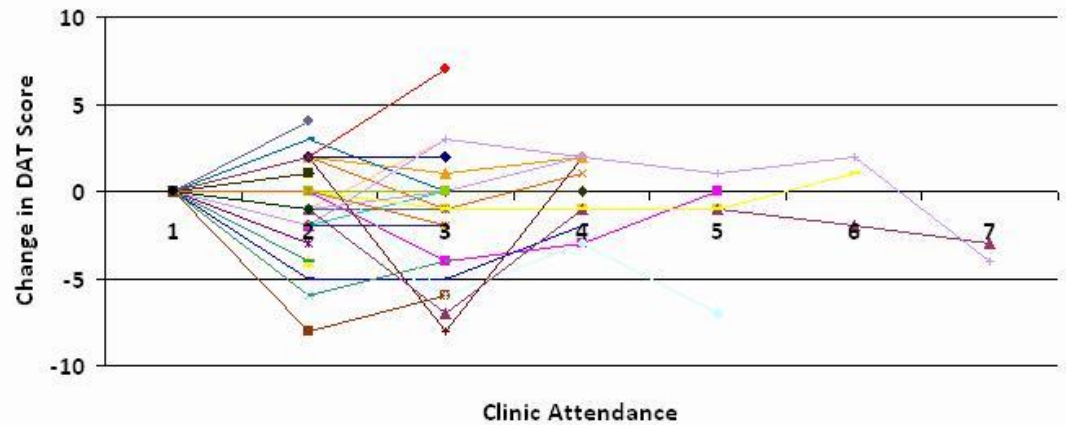
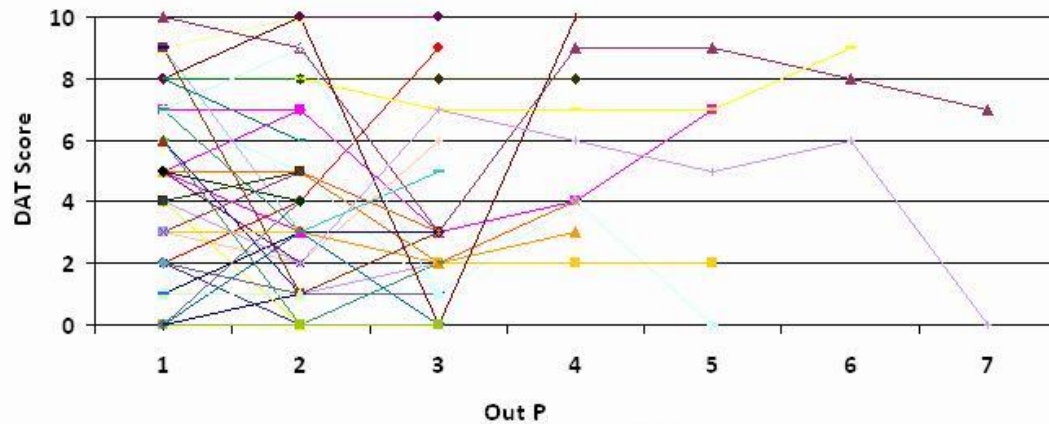
- Total admissions for Jan – Sept 2010 – **57**
- Total admissions for Jan – Sept 2008 – **83**
- Total admissions for Jan – Sept 2009 – **79**
- Looking at average monthly length of stay – saving of **327 bed days** overall



# Referrals made outside MDT



# Changes to Distress Assessment Thermometer (DAT) score (Jan 10- Jan 11)



# Change in DAT Score

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- Overall trend to reduced distress
  - Function of ability of patient to access service as needed and not attend if not required
  - Greater time and better quality care delivered
  - Feedback from focus group:
    - Patients able to self-manage yet feel supported by team at CCC
    - Improved communication led to feeling more empowered and informed about own condition and when to seek help
    - Familiarity and trust in team

## Impact of CCC on clinic rates Jan 2010 – Sep 2010

<b>Nature of consultation:</b>	<b>Number (%) n = 266</b>
<b>Routine</b>	<b>116 (44)</b>
<b>Professionally triggered†</b>	<b>32(12)</b>
<b>Self triggered (due to symptoms/distress)</b>	<b>14 (5)</b>
<b>Number of cancellations (rate)</b>	<b>86 (32)</b>
<i>Asymptomatic/patient request</i>	<i>77</i>
<i>In hospital/died</i>	<i>3</i>
<i>Too unwell to attend</i>	<i>6</i>
<b>Number of “DNA” (rate)</b>	<b>18 (7)</b>
<i>Patient died</i>	<i>1</i>
<i>In hospital</i>	<i>2</i>
<i>Did not receive appointment</i>	<i>2</i>
<i>Patient choice*</i>	<i>10</i>
<i>Reason unknown/not documented</i>	<i>3</i>

# Summary

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- **Prevention:**

- The flexible clinic resulted in a decrease in emergency admissions, saving 327 bed days over the period Jan-Sept 2010 (saving ~£100K)
- There were 14 urgent patient-triggered appointments, potentially avoiding emergency admission/attendance at A&E

- **Efficiency:**

- Low DNA rates (7% versus 12% standard respiratory clinic DNA rate)
- One third of outpatient appointments cancelled by the implementation of CNS telephone contact prior to the clinic
- Facilitation of urgent clinic slots by increased efficiency and planning

- **Quality:**

- Substantial increase in patient satisfaction through implementation of ACP, TRS, longer consultation length, greater patient involvement in decisions regarding treatment and increased clinic efficiency

# Acknowledgements

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- Lung cancer team:
  - Eileen Baldock (CNS)
  - Gill Hilton (CNS locum)
  - Leanne Picco (CNS)
  - Jenny Messenger (Physician)
  - Louise Mason (Palliative Med Consultant)
  - Madalyn Betsworth (Pathway coordinator)
  - Natalie Taylor (project manager)
- BSUH NHS Trust cancer service management team
- Sussex Cancer Network Service Improvement Team
  - Charlotte Marples
  - Joanna Gaddes
- NHS Improvement team
  - Anne Wilkinson
  - Noeline Young
  - Gilmour Frew
- TinIT (database creation)

## **For discussion....**

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- How does this work relate to your own pathway/service?
- What would best practice be in your Network/Trust?
- Is there an alternative to a traditional pathway of care?
- How can we increase links for patients' management between care settings?



# Future work

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- Risk-stratified pathway of care
  - Self-management
  - Shared care
  - Complex case management

# Generic Lung Cancer Pathway for Prototype Testing

## Care Coordination

