



On-line portal for the validation of BCCOM data: results from Year 1

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- Set up national audit of symptomatic breast cancers
- Start from routinely collected national data: cancer registries/ HES ...
- Gives participants the opportunity to validate hence own - the data
- Feed data back to the cancer registries
- Encourage contacts between breast units and cancer registries



BCCOM Phase 1 (2004-2010)



- Breast surgeons sent encrypted files containing their patients' details, as recorded by cancer registries
- File format: spreadsheet, one row per patient, 53 columns
- Surgeons asked to validate data and return signed off file to the WMCIU
- Validated data returned to cancer registries in a flat file
- Annual UK-wide report produced; regional/ breast unit level reports produced on ad-hoc basis

Weaknesses

- ✓ Risk of breaches of data protection and confidentiality
- ✓ Difficulties encountered by participants when opening encrypted files
- ✓ Information not in a user-friendly format
- ✓ Data returned by surgeons difficult for cancer registries to process
- ✓ No automatic, personalised feedback to participants



BCCOM Phase 2 (2011)



SPECIFICATIONS

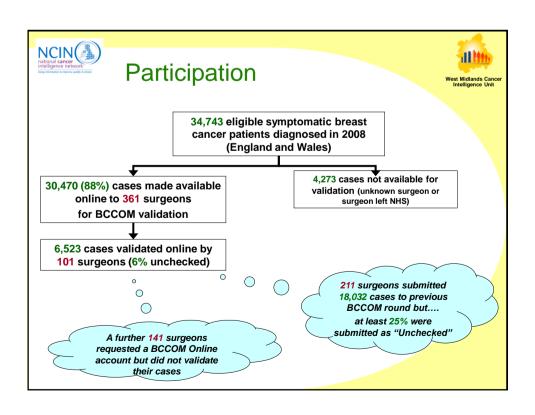
- Online portal: Surgeons to log in, access, amend and sign off their data online
- Format: one patient by computer screen
- Comprehensive audit of data changes
- Strong data security
- · Generate automatically:
 - ➤ Certificates upon audit completion, allowing participants to document their participation in audit
 - > Surgeon level reports



Launch of BCCOM Online



- Online portal developed as an extension of the ENCORE (English National Cancer Online Registration Environment) national cancer registration platform
- Launched in June 2011 available for England and Wales
- Access: To minimise the risk of disclosure, surgeons can access only their assigned patients
- Functionalities
 - Participants can reassign a patient to another surgeon or claim a
 patient not on their list
 - Messages on missing/ unknown patients automatically sent to BCCOM administrator who can investigate and re-assign patients if appropriate
 - Cases listed in order of priority: top of the list are cases for which the information provided by the cancer registry seems to either omit important data or contain unexpected data.
 - Participants can choose to only validate these cases, and submit the other cases as 'unchecked'



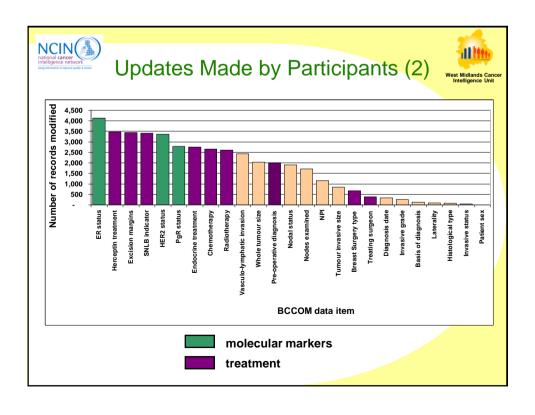


Updates Made by Participants (1)



Changes to initial cohort

- 62 cases added by participants
- 282 cases identified as screen-detected by participants
- 109 cases excluded for other reasons:
 - disagreement on date of diagnosis
 - > recurrence
 - > patient unknown at assigned breast unit





Updates Made by Participants (3)



Chemotherapy Treatment		Participants update				
		Unknown	Yes	No		
Cancer Registry/ HES data	Unknown	•	271	2,305		
	Yes	2	-	56		
	Planned	-	16) 2		

Sentinel Lymph Node Procedure		Participants update				
		Unknown	Yes	No		
Cancer	Unknown	-	511	2,852		
Registry/ HES data	Yes	3	-	41		



Feedback from Participants



- 106 surgeons took part in a survey asking for feedback on BCCOM Online
- Main suggestions from survey participants
 - More guidance
 - More advanced notice / reminders
 - Alternative methods to provide passwords
 - Provide feature such as uploading MDT data
- Changes introduced for next BCCOM round
 - Original cancer registry data supplemented by other national dataset (England: Hospital Episode Statistics, Radiotherapy, and National Cancer Waiting Times Monitoring Dataset; Wales: Canisc)
 - Timeliness: Audit patients diagnosed in 2010 (i.e. omit 2009)
 - Breast units with good quality in-house data invited to upload
 - Online Portal: Improvements based on feedback received



Surgeon Level Reports



- Granularity treating-surgeon level, whether surgeon has taken part in BCCOM or not
- Benchmarking each surgeon's results compared with National results (validated or not)
- Content measures based on:
 - CLE: Breast Clinical Lines of Enquiry Briefing Paper for National Cancer Peer Review 2011-2012
 - NICE: National Institute For Health and Clinical Excellence Quality standard for breast cancer (August 2011)
 - NHSBSP audit of screen-detected breast cancers 1 April 2009 to 31 March 2010
 - BCCOM: list of outcome measures/ items flagged as parameters to check in priority/ items specific to audit process
- Access to report online, secure site for surgeons to access their individual report

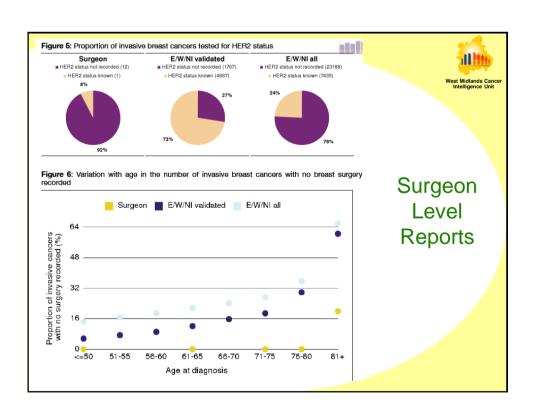






Table 10: Use of sentinel lymph node biopsy (SNLB) in management of invasive symptomatic breast cancers diagnosed in 2008

Sentinel Lymph Node Biopsy?	Surgeon		E/W/NI v	validated	E/W/NI all		
Sentinei Lympn Node Biopsyr	Nº cases	%	Nº cases	%	Nº cases	%	
Yes SNLB	1	7.7%	2,289	35.6%	8,152	26.6%	
No SNLB	1	7.7%	3,098	48.2%	3,189	10.4%	
Unknown	11	84.6%	1,047	16.3%	19,282	63.0%	
Total	13	100.0%	6,434	100.0%	30,623	100.0%	

Table 11: Variation with age in radiotherapy (RT) for invasive symptomatic breast cancers treated with breast conserving surgery

Age at diagnosis	Surgeon		E/W/NI validated			E/W/NI all			
		BCS, known to have RT			BCS, known to have RT			BCS, known to have RT	
	Nº with BCS	Number	%	Nº with BCS	Number	%	Nº with BCS	Number	%
<=50	1	-	0.0%	816	745	91.3%	3,728	2,244	60.2%
51-55	-	-	na	241	219	90.9%	998	594	59.5%
56-60	-	-	na	282	264	93.6%	1,049	681	64.9%
61-65	2	-	0.0%	239	221	92.5%	1,052	671	63.8%
66-70	-	-	na	181	155	85.6%	760	501	65.9%
71-75	-	-	na	188	157	83.5%	911	607	66.6%
76-80	-	-	na	203	158	77.8%	889	527	59.3%
81+	-	-	na	166	91	54.8%	704	304	43.2%
Total	3	-	0.0%	2,316	2,010	86.8%	10,091	6,129	60.7%

Surgeon Level Reports



Conclusions



Advantages

- No need for new data collection route
- Returns data to surgeons for validation: clinical ownership
- Prioritises cases clinicians should check
- Encourages communication between clinicians and cancer registries
- Generates surgeon level/hospital level/cancer network level reports for local audits: completion of audit cycle

Issues

- Difficulties encountered by participants to create/use @nhs.net email account
- 43% of non-participants: "support from a data manager would encourage me to take part in future"
- Surgeon level vs MDT level data

