

II SESSIONE:

LA BIOPSIA DEL LINFONODO SENTINELLA: PRIMA O DOPO LA CHEMIOTERAPIA NEOADIUVANTE? Moderatori: Diana Crivellari, Alberto Massocco

Ore 15,00-15,15 Lo studio SENTINA - Laura Orlando

Ore 15,15-15,30 Commento sulla metodologia - Giovanni L. Pappagallo

Ore 15,30-15,45 Quale impatto sulla pratica clinica? - Nicla La Verde

Ore 15,45-16,00 Discussione

La Qualità Tedesca



È un'auto tedesca È una modella tedesca

È uno studio tedesco

http://dx.doi.org/10.1016 51470-2045/137/0166-9 See Comment page 567 Interdisciplinary Breast Centre Klinikum Landshut, Landshut, Disseldorf, Disseldorf, Germany (ProfT FehmMD); (B Fidige MD) and Depart of Gynaecology and Obs. (Prof M Unitch MD) Autodisciplinary Breast IM MD/z Department of Gyna and Department of Patho (A Staebler MD), Universit Medical Centre Tübingen, bingen, Germany; Department of Pathology, University Medical Centre, ynaecology and Obstetrics University Hospital

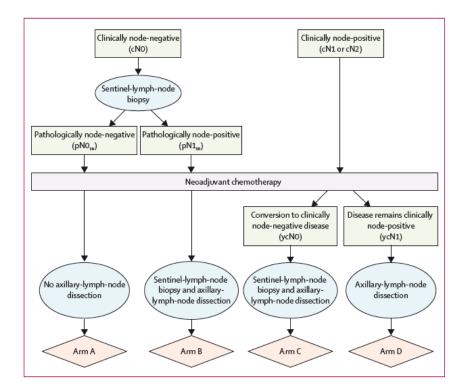
Articles

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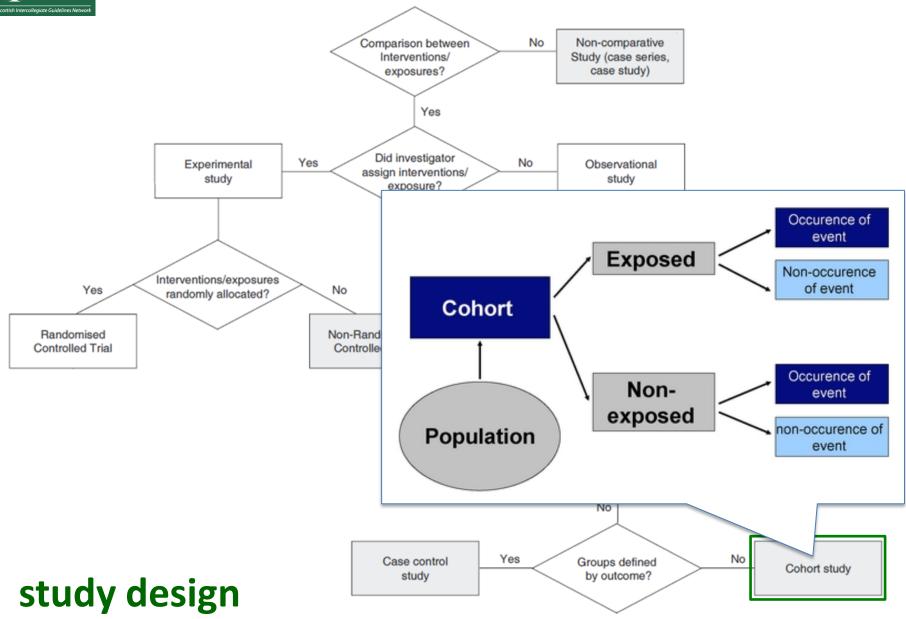
gGmbH, Kassel, Germany (S SchmatliochM D); and Brea

Thorsten Kuehn, Ingo Bauerfeind, Tanja Fehm, Barbara Fleige, Maik Hausschild, Gisela Helms, Annette Lebeau, Cornelia Liedtke, Gunter von Minckwitz, Valentina Nekljudova, Sabine Schmatloch, Peter Schrenk, Annette Staebler, Michael Untch Lancet Oncol 2013; 14: 609–18

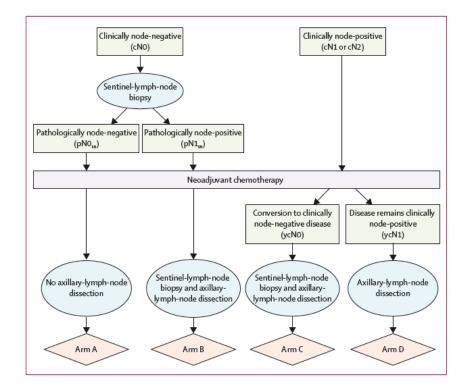


The SENTINA study is a four-arm, prospective, multicentre cohort study undertaken at 103 centres in Germany and Austria.

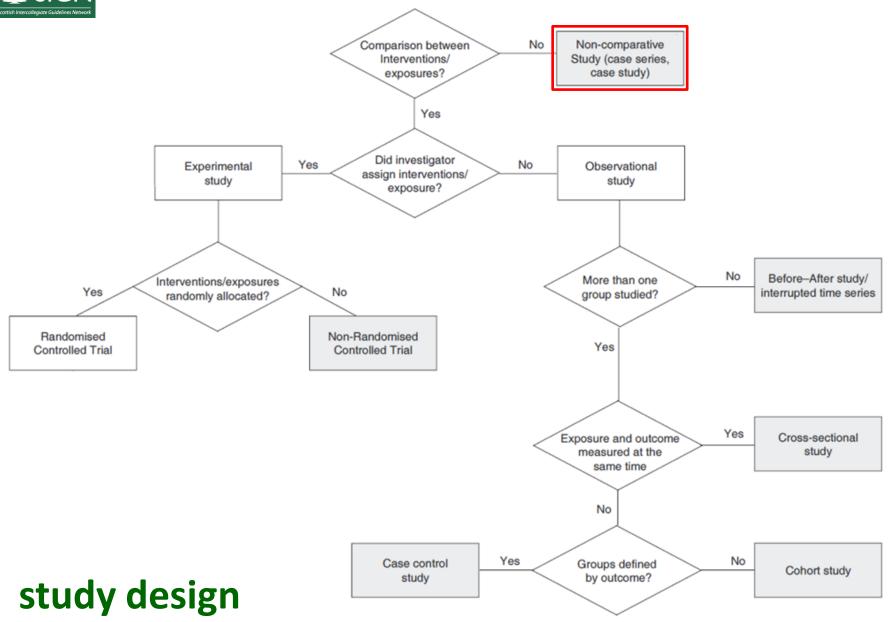




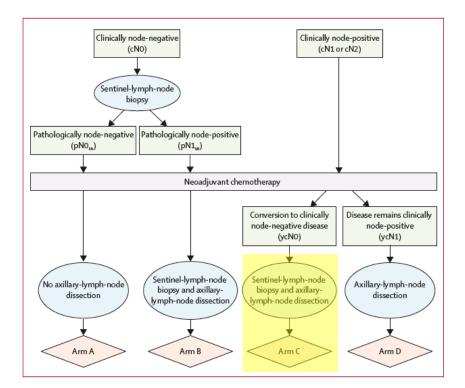
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The primary outcome of our study was accuracy of sentinel-lymph-node biopsy (measured as the false-negative rate) in patients in arm C.

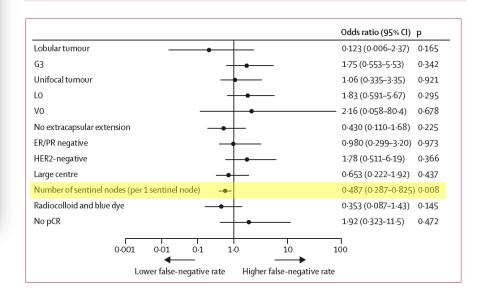
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Statistical analysis

Using data from the German multicentre validation trial for sentinel-lymph-node biopsy in primary surgery,²⁵ we assumed a false-negative rate of 7% in arms B and C and calculated the sample size to exclude 10% in each of these arms, with a one-sided 95% CI. In every arm, we needed at least 196 patients with positive nodal status (calculated with nQuery Advisor, version 6.02). Based on findings of a pilot study, we expected that 13% of the entire study population would have a positive axillary status after neoadiuvant chemotherapy in arm B and 14% in arm C, resulting in a total number of 1508 patients for the study. Analyses were per protocol. We used Pearson χ^2 tests to compare rates across groups, with exact Pearson 95% CIs for the false-negative rate and detection rate. Also, we used Wilcoxon and Kruskul-Wallis testing to compare the number of detected sentinel lymph nodes between two groups and three groups, respectively. We did multivariate logistic regression in arm C to find factors that affected the detection rate and false-negative rate. We did analyses with SAS 9.2, under SAS Enterprise Guide 4.3.

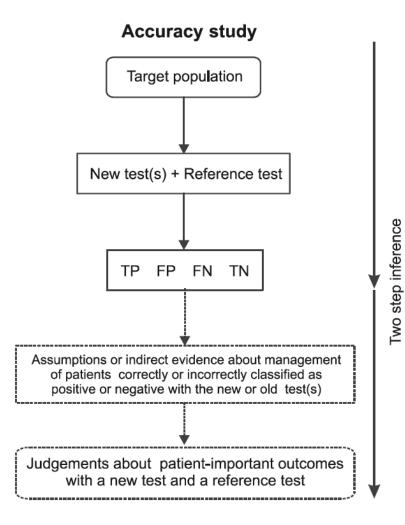
	Arm B (n=64)	Arm C (n=226)
Overall false-negative rate (n/N; 95% CI)	51.6% (33/64; 38.7–64.2)	14·2% (32/226; 9·9–19·4)
False-negative rate, according to number of sentinel nodes removed		
1	66.7% (16/24)	24·3% (17/70)
2	53.8% (7/13)	18·5% (10/54)
3	50.0% (5/10)	7.3% (3/41)
4	50.0% (3/6)	0.0% (0/28)
5	18.2% (2/11)	6.1% (2/33)
False-negative rate, according to detection technique		
Radiocolloid alone	46.2% (18/39)	16.0% (23/144)
Radiocolloid and blue dye	60.9% (14/25)	8.6% (6/70)
False-negative rate, according to detection tech Radiocolloid alone	nnique 46·2% (18/39)	16.0% (23/144)

Data are rate (number of patients), unless otherwise stated.



J. L. Brożek^{1,2}, E. A. Akl³, E. Ueffing⁹, P. Alonso-Coello^{10,11}, G. H. Guyatt^{4,17}, H. J. Schünemann^{3,17} R. Jaeschke⁴, D. M. Lang⁵, J. Meerpohl^{12,13}, B. Phillips¹⁴, for the GRADE Working Group P. Bossuyt⁶, P. Glasziou⁷, M. Helfand⁸, A. R. Horvatt¹⁵, J. Bousquet¹⁶,

Allergy 2009: 64: 1109-1116



Usually, when clinicians face the decision to use or not to use a test, they consider its accuracy. They reason that the more sensitive and specific the test, the more likely they are to use it. But...

- What if performing the test will not • induce any change in the management?
- Would the results of the test then make any difference even if it was very accurate?
- If recommendations to use diagnostic ۲ tests are based on test accuracy alone, are clinicians providing best care or a disservice to their patients when they follow these recommendations?

J. L. Brożek^{1,2}, E. A. Akl³, E. Ueffin⁹, P. Alonso-Coello¹⁰ R. Jaeschke⁴, D. M. Lang⁵, J. Meerpohl^{12,13}, B. Phillips¹⁴ P. Bossuyt⁸, P. Glasziou⁷, M. Helfand⁸, A. R. Horvath¹⁵, J. Bousquet¹⁶

Two step inference

E. Ueffing⁹, P. Alonso-Coello^{10,11}, G. H. Guyatt^{4,17}, H. J. Schünemann^{3,17} J. Meerpohl^{12,13}, B. Phillips¹⁴, 60 the GRADE Working Group

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Accuracy study Target population New test(s) + Reference test TP FP FN TΝ Assumptions or indirect evidence about management of patients correctly or incorrectly classified as positive or negative with the new or old test(s) Judgements about patient-important outcomes with a new test and a reference test

Sentinel-lymph-node biopsy in patients with breast cancer before and after neoadjuvant chemotherapy (SENTINA): a prospective, multicentre cohort study

Thorsten Kuehn, Ingo Bauerfeind, Tanja Fehm, Barbara Fleige, Maik Hausschild, Gisela Helms, Annette Lebeau, Cornelia Liedtke, Gunter von Minckwitz, Valentina Nekljudova, Sabine Schmatloch, Peter Schrenk, Annette Staebler, Michael Untch Lancet Oncol 2013; 14:609-18

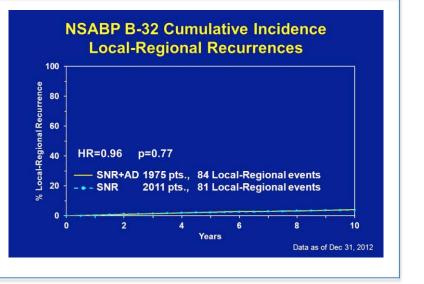
A specific difficulty is the clinical rating of a particular false-negative rate after neoadjuvant chemotherapy.

Whether inaccurate sentinel-lymphnode biopsy translates into an increased recurrence rate is unclear. The NSABP-B32 trial included patients with only one resected sentinel node, who had a false-negative rate of 17.7%. The unfavourable accuracy in this subgroup did not translate into a clinically relevant regional recurrence rate.

Technical outcomes of sentinel-lymph-node resection and conventional axillary-lymph-node dissection in patients with clinically node-negative breast cancer: results from the NSABP B-32 randomised phase III trial

David N Krag, Stewart J Anderson, Thomas B Julian, Ann M Brown, Seth P Harlow, Takamaru Ashikaga, Donald L Weaver, Barbara J Miller, Lynne M Jalover, Thomas G Frazier, R Dirk Nøyes, André Robidoux, Hugh M C Scarth, Denise M Mammolito, David R McCready, Eleftherios P Mamounas, Joseph P Costantino, Norman Wolmark, for the National Surgical Adjuvant Breast and Bowel Project (NSABP) Lancet Oncol 2007; 8: 881–88

The clinical significance of leaving ALND disease unresected will be tested by comparing the survival of patients in groups 1 and 2.



On the other hand, whether false-negative rates before and after neoadjuvant chemotherapy can be directly compared and whether the clinical outcome is similar is also unclear.

Assessing the value of diagnostic tests: a framework for designing and evaluating trials

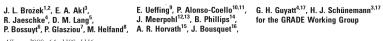
The value of a diagnostic test is not simply measured by its accuracy, but depends on how it affects patient health. This article presents a framework for the design and interpretation of studies that evaluate the health consequences of new diagnostic tests

Lavinia Ferrante di Ruffano *research fellow*¹, Christopher J Hyde *professor of public health and clinical epidemiology*², Kirsten J McCaffery *associate professor and principal research fellow*³, Patrick M M Bossuyt *professor of clinical epidemiology*⁴, Jonathan J Deeks *professor of biostatistics*¹

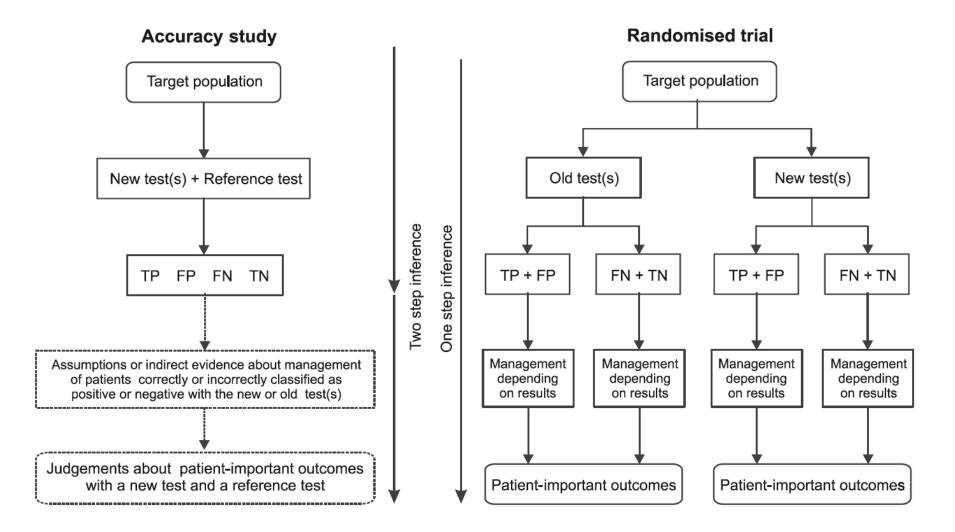
BMJ 2012;344:e686 doi: 10.1136/bmj.e686 (Published 21 February 2012)

Test accuracy, diagnostic yield, therapeutic yield, and treatment efficacy

More accurate tests will improve patient outcomes if the reductions in false positive or false negative results lead to more people receiving appropriate diagnoses (diagnostic yield) and appropriate treatment (therapeutic yield). The degree to which appropriate treatment can improve patient outcomes depends on its efficacy (treatment efficacy).



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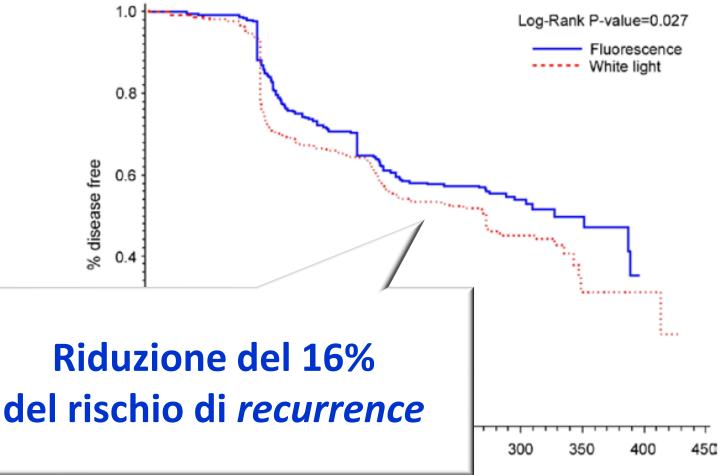


Hexaminolevulinate Guided Fluorescence Cystoscopy Reduces **Recurrence in Patients With Nonmuscle Invasive Bladder Cancer** Arnulf Stenzl,* Maximilian Burger,*,† Yves Fradet, Lance A. Mynderse,‡ Mark S. Soloway, † J. Alfred Witjes, § Martin Kriegmair, Alexander Karl, § Yu Shen and H. Barton Grossman, THE JOURNAL OF UROLOGY® Vol. 184, 1907-1914, November 2010 Ta-T1 additional Table 2. detection rate: 16.4% With at Least 1 Lesion with stars of Each Type Detected Only With Fluorescence (%) tumor type) Pts with Ta or T1 tumors 47 (16.4) (95% Cl 12.3–21.2) 286 (78.4) Pts with Ta tumors 262 (71.8) 41 (15.6) Pts with T1 tumors 63 (17.3) 8 (12.7) Pts with CIS 19 (46.3) 41 (11.2) Note that natients may have more than **Cis additional detection rate: 46.3%**

Hexaminolevulinate Guided Fluorescence Cystoscopy Reduces Recurrence in Patients With Nonmuscle Invasive Bladder Cancer

Arnulf Stenzl,* Maximilian Burger,*,† Yves Fradet, Lance A. Mynderse,‡ Mark S. Soloway,† J. Alfred Witjes,§ Martin Kriegmair, Alexander Karl,§ Yu Shen and H. Barton Grossman||,¶

THE JOURNAL OF UROLOGY® Vol. 184, 1907-1914, November 2010



J. L. Brożek^{1,2}, E. A. Akl³, R. Jaeschke⁴, D. M. Lang⁵, P. Bossuyt⁶, P. Glasziou⁷, M. Helfand⁸, A. R. Horvath¹⁵, J. Bousquet¹⁶, G. H. Guyatt^{4,17}, H. J. Schünemann^{3,17} for the GRADE Working Group

Allergy 2009: 64: 1109–1116

Clinicians should always bear in mind that, whatever the test accuracy, application of any diagnostic test is of value only if it results in improved outcomes that are important for patients.



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