

# Analysis of DPI Studies

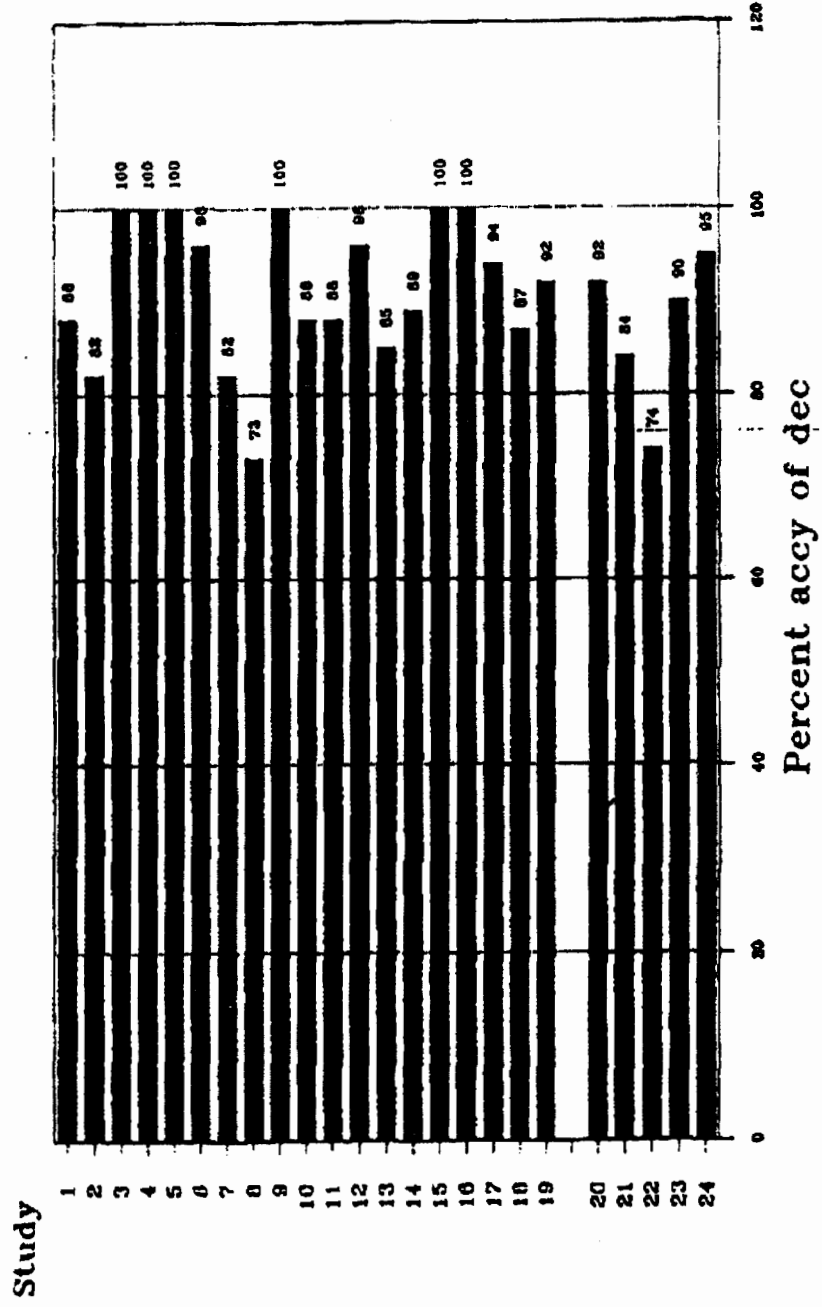
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DoD Polygraph Institute

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# Decision accy, Criminal, Guilty Ss Others and DPI



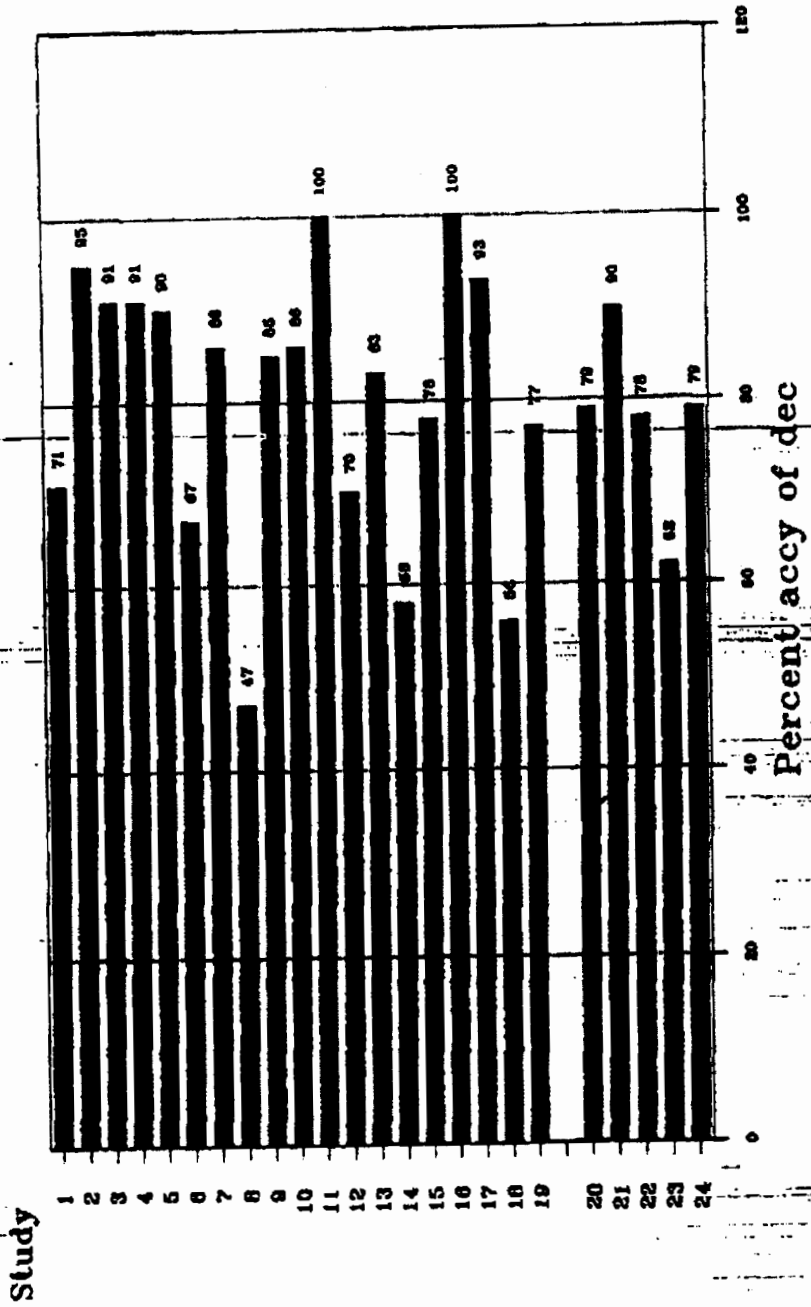
## KEY

TITLE	n	% Incl
1. Barland & Raskin (1975)	36	28
2. Podlesny & Raskin (1978)	20	15
3. Raskin & Hare (1978)	24	12
4. Rovner et al (1979)	24	12
5. Dawson (1980)	12	-
6. Hammond (1980)	32	25
7. Bradley & Janisse (1981)	96	26
8. Szucko & Kleinmuntz(1981)	15	-
9. Ginton et al (1982)	2	-
10. Bradley & Ainsworth (1984)	16	-
11. Gatchel et al (1984)	14	43
12. Honts et al (1985)	31	19
13. Honts et al (1986)	20	35
14. Foreman & McCauley(1986)	22	14
15. Honts et al (1987)	10	20
16. Driscoll, Honts, & Jones 1987	20	10
17. Kircher & Raskin (1988)	50	6
18. Patrick & Iacono (1989)	24	4
19. Horowitz (1989)	15	20
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20. Multi-Issue	77	19
21. 1/2 Time lag	40	8
22. ZCT	20	5
23. MGQT	44	5
24. Mot-1	30	27

## Key Findings

1. DPI mock crime accuracy:
  - a. 21% inconclusive
  - b. 84% accuracy of decisions (excl incl)
2. DPI is just as accurate as other labs.
  - a. 19% inconclusive
  - b. 86% accy of decisions

# Decision accy, Criminal, Innocent Ss Others and DPI



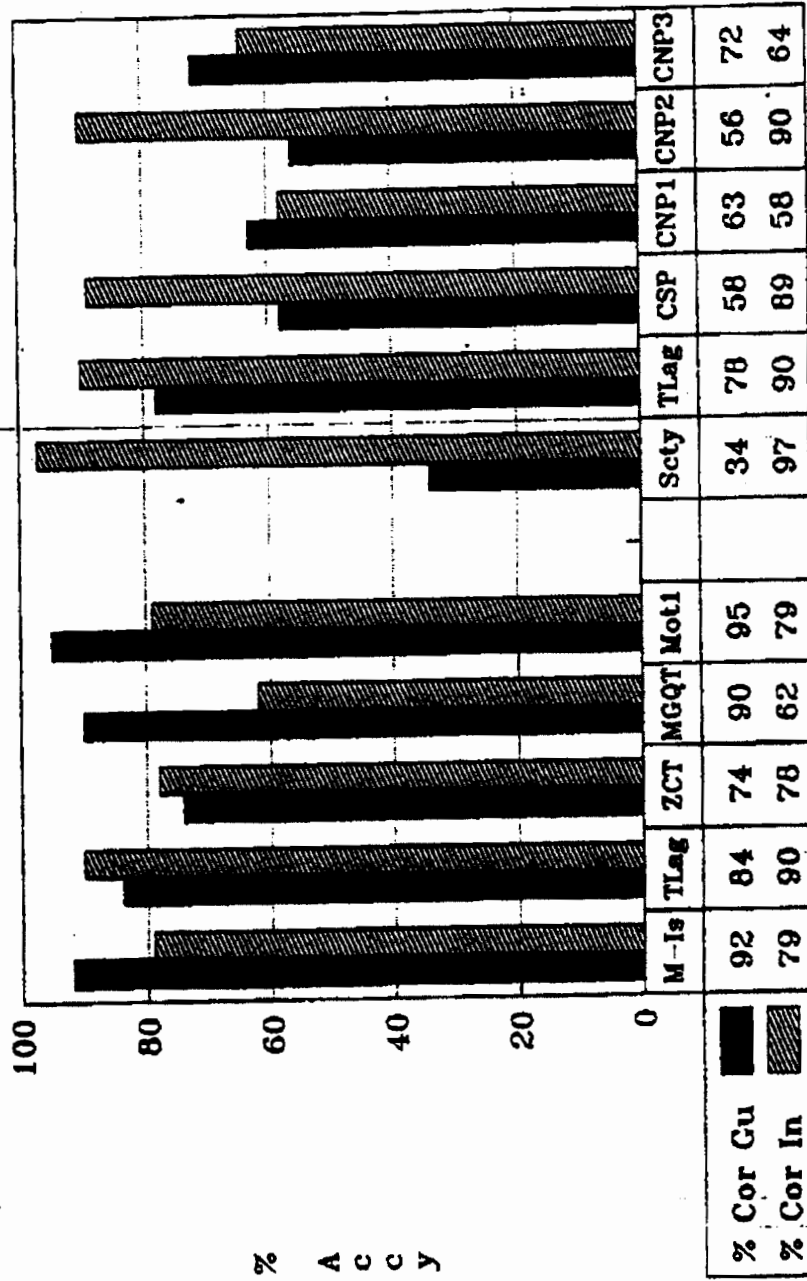
## Key Findings

DPI mock crimes compared to  
non-DPI mock crime studies:

3. Guilty Ss are just as easily detected.
4. Innocent Ss are just as easily cleared.

[But...DPI has more inconclusives  
on innocent Ss (33%) than do  
other labs (21%)]

**All DPI Studies, Guilty & Inno**  
**Accy of decisions (excluding incls)**



## List of DPI Studies

### Mock crime

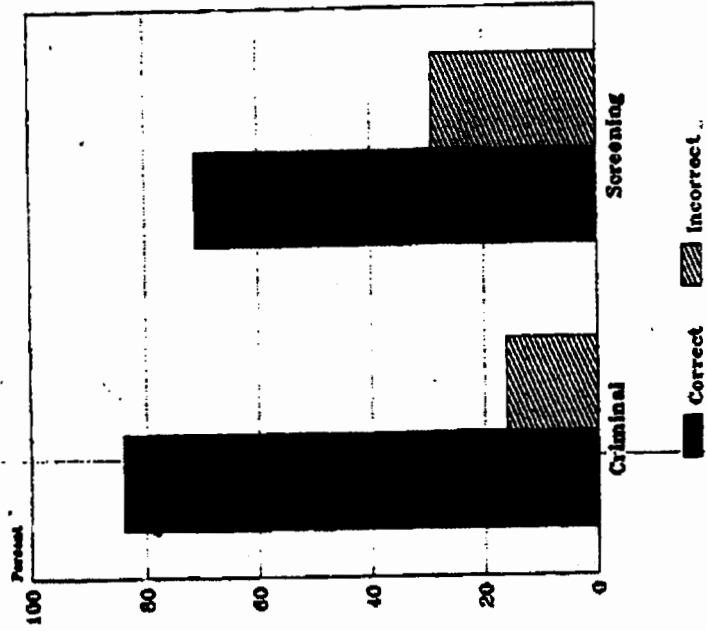
1. Multi- v. Single-Issue tests N = 100
2. Time Lag & Question Specificity study  
(criminal half) N = 50
3. ZCT study --N = 40
4. MGQT study . N = 88
5. Motivation study N = 60

### Mock Screening

1. Security Screening validation study N = 207
2. Time lag & question specificity study  
(screening half) N = 50
3. CSP question study (old v new) .N = 151
4. CNP-1 (Scenarios) N = 86
5. CNP-2 (CQs) N = 120
6. CNP-3 (Pretest) N = 183

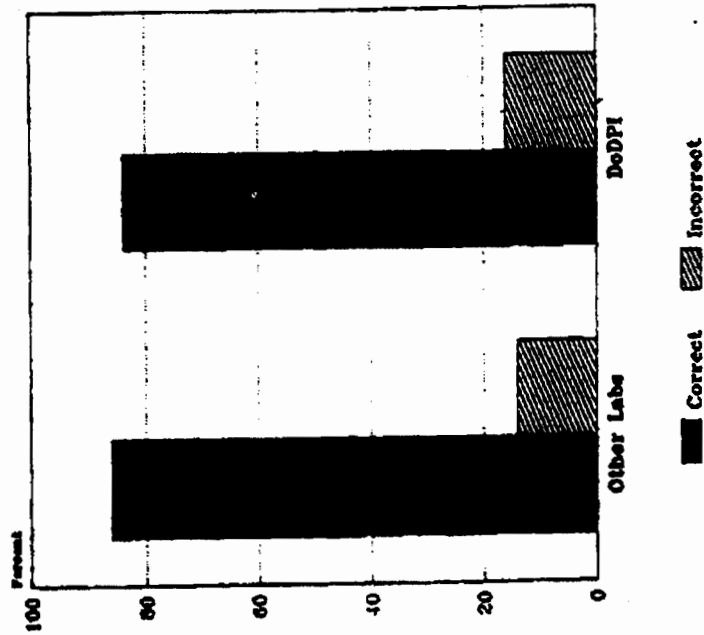


### Accuracy of Examiner Decisions Criminal (N = 336) v. screening (N = 793)



Incl: Criminal = 21%, Screening = 23%

### Accuracy of Mock Crime studies BPI (N = 336) v. other Labs (N = 961)



Incl: Other = 18%, BPI = 21%

## Key Finding

### Mock Screening Studies

5. The polygraph is less accurate in ~~mock screening studies than in~~ mock crime studies.
6. Most errors in mock screening are FNs...