



Physiology Lessons
for use with the
Biopac Student Lab

PC under Windows® 98SE, Me, 2000 Pro
or Macintosh® 8.6 – 9.1

Manual Revision
PL3.6.7-ML3.0.7/081103

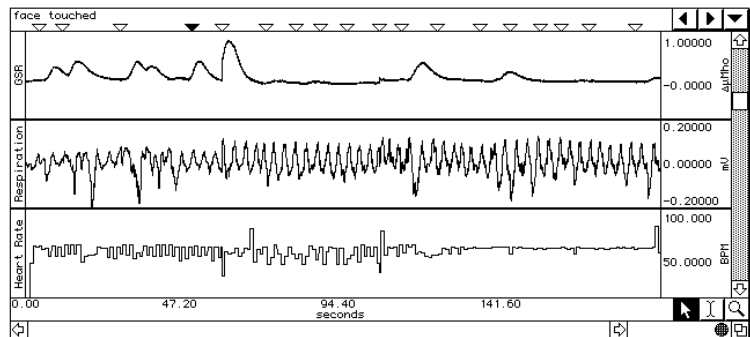
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Lesson 9 Data Report

GALVANIC SKIN RESPONSE & THE POLYGRAPH



Lesson 9

GALVANIC SKIN RESPONSE & THE POLYGRAPH

DATA REPORT

Student's Name: _____

Lab Section: _____

Date: _____

Subject Profile

Name _____

Height _____

Age _____

Weight _____

Gender: Male / Female

I. Data and Calculations

A. Complete Table 9.1 with Segment 1 data.

Mark **I** for increase, **D** for decrease, and **NC** for no change relative to baseline.

Table 9.1 Segment 1 Data

| Procedure | Heart Rate [CH 41 Value] | Respiratory Rate [CH 40 BPM] | GSR [CH 3 Value] |
|---------------------------|-----------------------------|---------------------------------|---------------------|
| Resting (baseline) | | | |
| Quietly say name | | | |
| Count from 10 | | | |
| Count from 30 | | | |
| Face touched | | | |

B. Complete Table 9.2 with Segment 2 data.

Mark **I** for increase, **D** for decrease, and **NC** for no change relative to baseline.

Table 9.2 Segment 2 Data

| Square Color | Heart Rate [CH 41 Value] | Respiratory Rate [CH 40 BPM] | GSR [CH 3 Value] |
|--------------|-----------------------------|---------------------------------|---------------------|
| white | | | |
| black | | | |
| red | | | |
| blue | | | |
| green | | | |
| yellow | | | |
| orange | | | |
| brown | | | |
| purple | | | |

C. Complete Table 9.3 with Segment 3 data.

Mark **I** for increase, **D** for decrease, and **NC** for no change relative to baseline.

Table 9.3 Segment 3 Data

| Question | Answer | Truth | Heart Rate [CH 41 Value] | Respiratory Rate [CH 40 BPM] | GSR [CH 3 Value] |
|-----------------|--------|-------|-----------------------------|---------------------------------|---------------------|
| Student? | Y N | Y N | | | |
| Blue eyes? | Y N | Y N | | | |
| Brothers? | Y N | Y N | | | |
| Earn "A"? | Y N | Y N | | | |
| Motorcycle? | Y N | Y N | | | |
| Less than 25? | Y N | Y N | | | |
| Another planet? | Y N | Y N | | | |
| Aliens visit? | Y N | Y N | | | |
| "Seinfeld"? | Y N | Y N | | | |
| Truthful? | Y N | Y N | | | |

II. Questions

D. Of what practical value is the GSR information obtained from the color experiment?

E. What major physiological changes account for the galvanic skin response?

F. Give three reasons why polygraph testing of a person's sincerity and honesty may yield inconclusive results.

End of Lesson 9 Data Report