

Evolution of Lie Detection

❑ In the essay "An Effectual Scheme for the Immediate Preventing of Street Robberies and Suppressing all Other Disorders of the Night" Defoe recommends to measure the pulse of the suspect to ascertain truth or lie

1730

❑ Caton the first to demonstrate how to detect electrical activity from the brain via electrodes.
❑ Mosso demonstrated how to show blood pressure undulations in response to breathing with his plethysmograph

1875

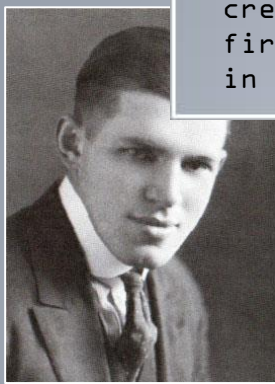
❑ The galvanic skin response (aka electrodermal activity) described by Fere and by Tarkhanoff as useful to measure psychological and emotional reaction
❑ Around 1896, Luigi Riva-Rocci created the first device to measure blood pressure: the sphygmomanometer

1896

1880s

20

century



❑ Vittorio Benussi published his discoveries about the respiratory symptoms of the lie in 1914
❑ The discontinuous systolic blood pressure test was invented in 1915 by William M. Marston to detect deception
❑ John A. Larson creates the first polygraph in 1921

1921

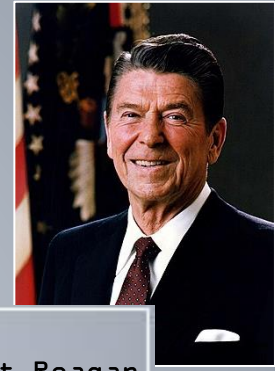
1914
1915

1923

❑ First major contact of the polygraph with the legal system- Marston attempts to use results as evidence
❑ Court rejected it on the basis that it had not gained general consensus within the community it belonged to- which became the Frye Standard



Measuring Pulse



❑ President Reagan issued National Security Decision Directive 84
❑ Less than 3 months later Reagan backtracked after protest and review by the U.S. Office of Technology Assessment which raised many criticisms of the polygraph still voiced today

1983

21

century

❑ The US National Research Council conducted a review of polygraph research and concluded that it fell short of validity and scientific rigour

2003

❑ Virtual Border Agent first makes an appearance at passport control going into Bucharest. It signifies a 'multi-modal' lie detector- one of the first.

2014



Trial by Combat



Body Language



Chewing Rice



Torture



Trial by Sacred Ass



Trial by Ordeal

Pre-20th Century

❑ From 4th February- the US Intelligence Community is allowed to conduct polygraph tests on their members once more to see if any leak secrets

2015

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