

## DNA PROFILING RESULTS (CODIS):

|                      |                               |                               |
|----------------------|-------------------------------|-------------------------------|
| CASE:<br>329-TX-1940 |                               |                               |
| NAME:                | UNKNOWN FEMALE                | DIANA URBINA                  |
| SOURCE:              | CODIS C. TEXAS                | NAMUS                         |
| TEST #:              | 1856-12148                    | 33-123-419                    |
| Allele:              | Estimated Length:             | Estimated Length:             |
|                      | X <sub>1</sub> X <sub>2</sub> | X <sub>1</sub> X <sub>2</sub> |
| CSF1PO               | 11 12                         | 10 11                         |
| D3S1358              | 14 17                         | 14 16                         |
| D5S818               | 11 12                         | 11 11                         |
| D7S820               | 10 14                         | 10 14                         |
| D8S1179              | 9 12                          | 8 12                          |
| D13S317              | 9 -                           | 9 12                          |
| D16S539              | 13 15                         | 14 15                         |
| D18S51               | 15 17                         | 15 15                         |
| D21S11               | 28 30                         | 28 30                         |
| FGA                  | 21 24                         | 21 24                         |
| TH01                 | 9                             | 9                             |
| TPOX                 | 8 11                          | 8 9                           |
| vWA                  | 15 18                         | 15 16                         |
| D1S1656              | 11 12                         | 11 15                         |
| D2S441               | 12 14                         | 10 13                         |
| D2S1338              | 15 21                         | 18 23                         |
| D10S1248             | 14 16                         | 14 16                         |
| D12S391              | - -                           | 13 19                         |
| D19S433              | 15                            | 15                            |
| D22S1045             | - 13                          | 13 14                         |

PROBABILITY OF FAMILIAL RELATION: 86.4312%

I, the undersigned Laboratory Director (G. Cohen), verify the interpretation of the results is correct as reported on September 9th, 2018



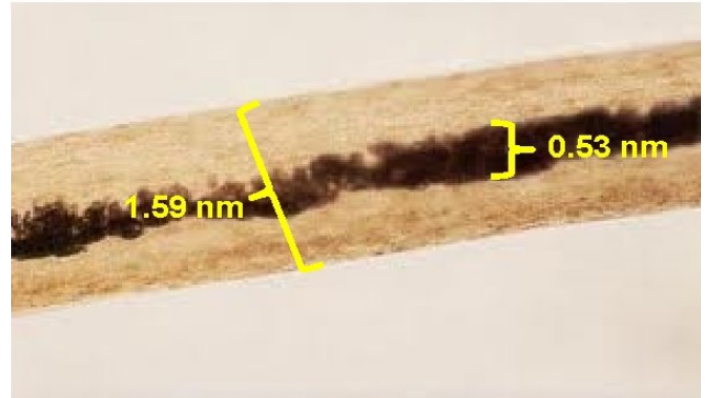
### FORENSICS ANALYSIS:

Assessment appears to show approx. 32 strands of scalp hair of a length between 22" and 30". Hair is a whitish blonde in colour and brittle with a coarse texture. Microscopic investigation verifies hair is human due to cortical patterning (imbricate) and continuous medulla within human boundaries. Pigment distribution produced inconclusive assessment of race. Examination of roots indicate forceful removal of strands with partial follicle removal evident on all strands not snapped during removal.

- D. NOWAK, 8/9/2018



ROOTS SHOWING FOLLICULAR EXTRACTION NORMS



CONT. MEDULLA WITHIN HUMAN

### TOXICOLOGY REPORT:

| SAMPLE:       | ASSESSMENT:             | NOTES:   |
|---------------|-------------------------|--|
| Blood (Whole) | Standard Tox. Screen    | Inconclusive due to clotting.  |
| Blood (Serum) | Standard Tox. Screen    | No $M_r$ associated with commonly abused substances. Possible heavy metal contamination. |
| Urine         | Electrolyte assessment  | Patterns consistent with severe dehydration and nephropathy.                             |
| Urine         | High weight screen      | High levels of protein detected.   |
| Stomach chyme | Basic chemical analysis | Alkali (~4 pH), unidentified carbohydrates.  |

#### CONTENTS OF STOMACH:

Approx. 300g of unidentified plant matter integrated into a mass of transparent mucus. Chemical assessment of mucus is inconclusive so far.

Plant matter is bruised and partially digested, placing consumption at around four or five hours before death. However, the alkali nature of the mucus may have inhibited digestion. Unidentified alkaloids have been extracted for further analysis.

#### BIOPSY ANALYSIS:

| TISSUE:           | VISUAL:                           | HISTOLOGY:  |
|-------------------|-----------------------------------|---|
| Cardiac           | Healthy, lacking adipose padding. | High creatinine concentration.                                  |
| Pulmonary         | Healthy.                          | Nothing out of the ordinary.                                    |
| Renal             | Bruised, discoloured.             | Marked nephropathy  |
| Hepatic           | No visible abnormalities.         | Noticeable hematoma in hepatic ducts.                           |
| Neural (CSF)      | Healthy.                          | High concentration of WBC ( $>10/\text{mm}^3$ )                 |
| Neural (Cerebral) | Several hematomas and lesions.    | Unusual glial density in frontal lobe. Highly nuclear staining. |

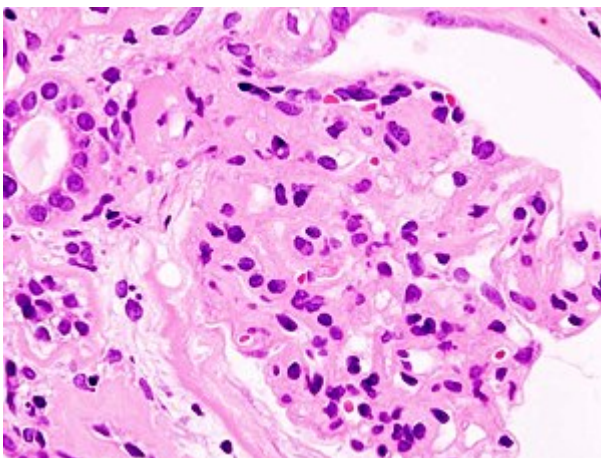


FIG 1: NEPHROPATHY OF LEFT KIDNEY.

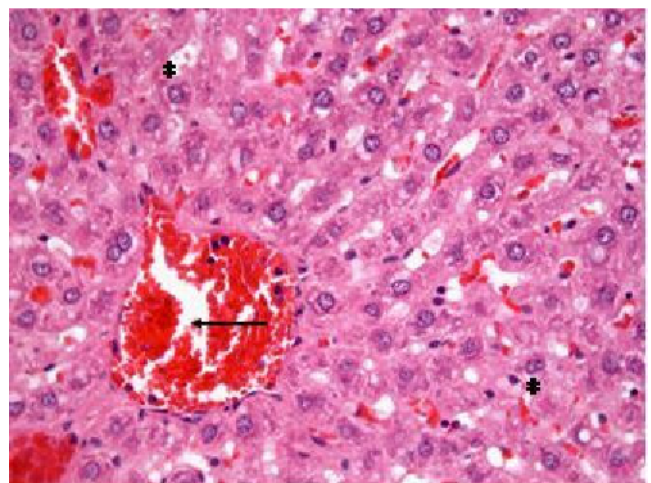


FIG 2: HEPATIC DUCT HEMATOMA.



FIG 3: HIGH WBC COUNT IN CSF.