

Cohort of HBV and HCV Patients

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- ❖ In 2003 the Hellenic Center for Disease Prevention & Control (HCDPC) started a cohort study of chronic HBV, HDV and HCV infection in Greece.
- ❖ The study had the financial support of the HCDPC and this will continue up to the year 2011.
- ❖ The project is scientifically directed by the Viral Hepatitis section of the HCDPC.
- ❖ Code named: **HepNet.Greece**



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΥΠΟΥΡΓΕΙΟ ΥΓΕΙΑΣ ΚΑΙ ΚΟΙΝΩΝΙΚΗΣ ΑΛΛΗΛΕΓΥΗΣ

Ελληνικά



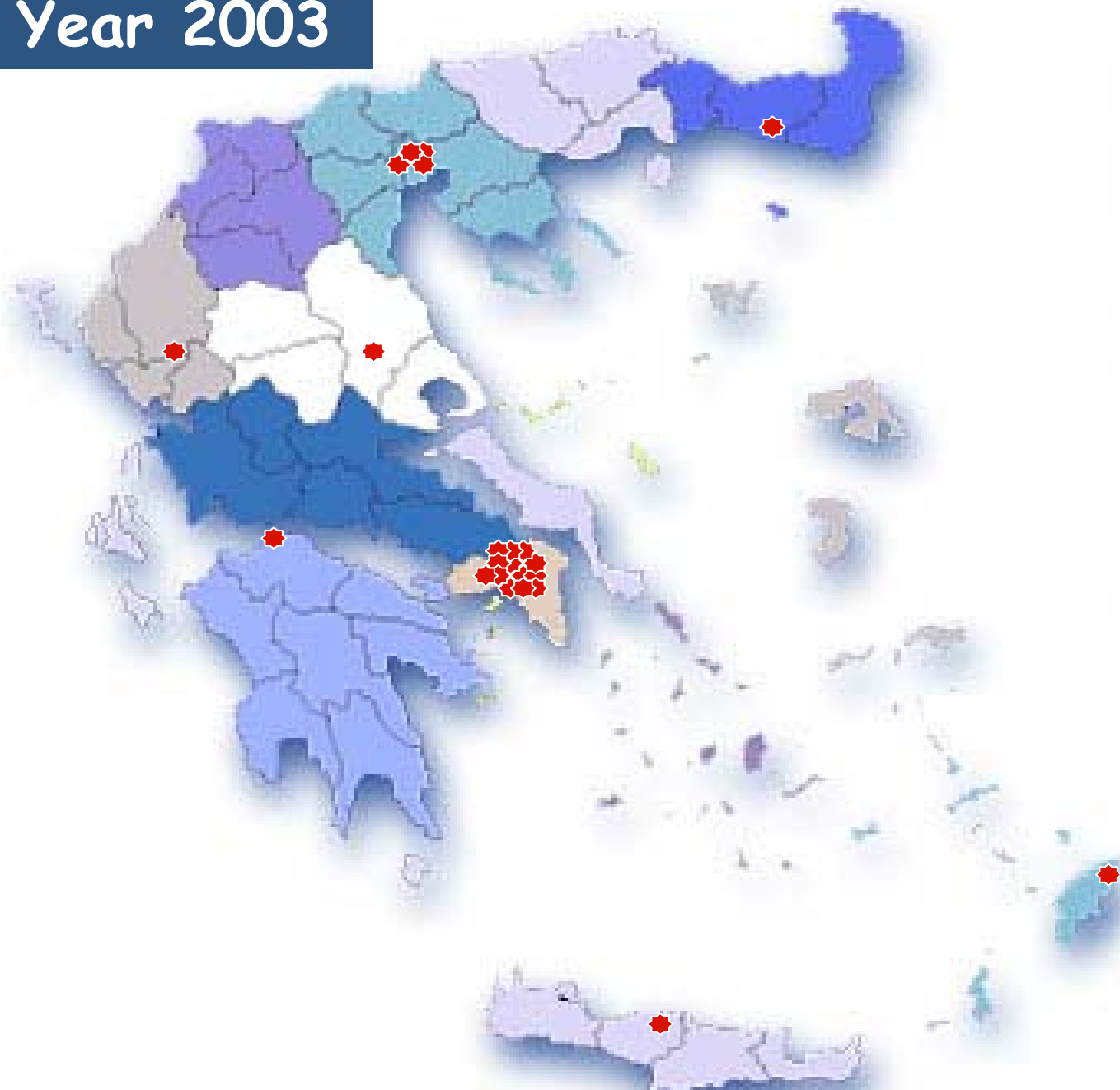
English



ΚΕΝΤΡΟ ΕΛΕΓΧΟΥ ΚΑΙ ΠΡΟΛΗΨΗΣ ΝΟΣΗΜΑΤΩΝ



Year 2003

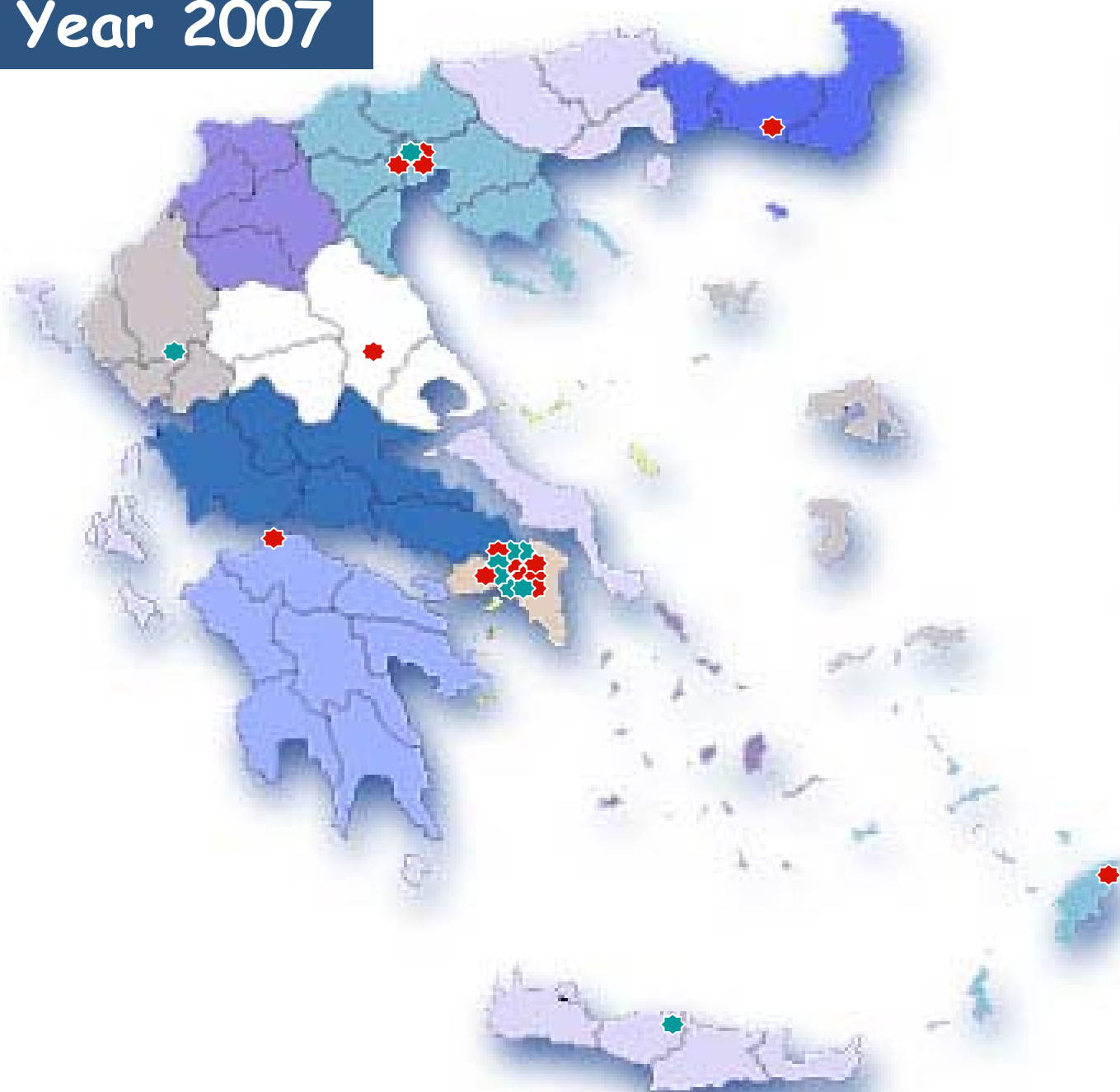


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30 Participating Hepatology Centers (2003)

| Area | Number | % |
|--|--------|-----|
| Athens (<i>metropolitan area</i>) | 18 | 60% |
| Piraeus (<i>metropolitan area</i>) | 2 | 7% |
| Thessalonica (<i>northern Greece</i>) | 4 | 14% |
| Alexandroupolis (<i>Thrace</i>) | 1 | 3% |
| Larissa (<i>central Greece</i>) | 1 | 3% |
| Ioannina (<i>western Greece</i>) | 1 | 3% |
| Heraklion (<i>Crete</i>) | 1 | 3% |
| Rodos Island (<i>Aegean sea</i>) | 1 | 3% |
| Rio (<i>Peloponnesus</i>) | 1 | 3% |

Year 2007



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30 Participating Hepatology Centers (2003)

| Area | Number | % |
|--|--------|-----|
| Athens (<i>metropolitan area</i>) | 12 | 60% |
| Piraeus (<i>metropolitan area</i>) | 1 | 5% |
| Thessalonica (<i>northern Greece</i>) | 3 | 15% |
| Alexandroupolis (<i>Thrace</i>) | 1 | 5% |
| Larissa (<i>central Greece</i>) | 1 | 5% |
| Ioannina (<i>western Greece</i>) | -- | -- |
| Heraklion (<i>Crete</i>) | -- | -- |
| Rodos Island (<i>Aegean sea</i>) | 1 | 5% |
| Rio (<i>Peloponnesus</i>) | 1 | 5% |

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20 Hepatology Centers Currently Participating

✓ Primary target of the study:

- To investigate the course and the outcome of chronic hepatitis B, D and C in a large cohort of Greek patients with/without Rx.

✓ Secondary targets:

- Obtain an indirect estimate of the incidence of chronic HBV, HDV & HCV infection in Greece from the number of newly diagnosed patients yearly.
- Introduce common standards of care in HBV and HCV patients.
- Improve collaboration between Hepatology Centers in Greece.

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Methodology

- ✓ Retrospective-prospective study.
- ✓ Started in 2003 with the retrospective recording of all patients followed at each participating Center since 1997.
- ✓ Data included demographic, clinical, biochemical and virological information available in patients' records.
- ✓ Since 2005, patients already in the study, as well as, all the new cases have been followed semiannually and new data reported centrally.

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Methodology

- ✓ At the beginning, recording was manual by filling-up a detailed questionnaire at each Center.
- ✓ Data were centrally evaluated and sorted by a special team at the Department of Epidemiology, Athens University School of Medicine and transferred to an electronic database.
- ✓ Since 2006, data entry and central reporting is being done electronically.
- ✓ Electronic data entry prevents reporting of a case, if a piece of crucial information is missing.

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Results

- ✓ Cases analyzed by October 2007:
 - ⌘ HBV: 3480 cases
 - ⌘ HCV: 2817 cases
- ⌘ Not included: 538 cases HBV & HCV
coinfection.
- ⌘ Analysis pending: HDV cases.

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HBV Results-Demographics

| Sex | Adults | Children | |
|-----------------------|--------------------|-----------------|-------------|
| Males (N, %) | 2,135 (64%) | 78 (61%) | |
| Females (N, %) | 1,218 (36%) | 49 (39%) | |
| Total | 3353 (96%) | 127 (4%) | 3480 |

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HBV Results-Demographics

| Parameter | Adults (Mean ± SD) | Children (Mean ± SD) |
|--|------------------------------|--------------------------------|
| Current Age | 45.3±14.9 | 7.9±4.0 |
| Age (at 1st diagnosis) | 40.3±15.3 | 6.6±4.1 |

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HBV Results-Demographics

| Parameter | Adults (Mean ± SD) | Children (Mean ± SD) |
|--|-------------------------------|---------------------------------|
| Current Age | 45.3±14.9 | 7.9±4.0 |
| Age (at 1st diagnosis) | 40.3±15.3 | 6.6±4.1 |
| Follow-up (at the time of study entry) | 3.0±3.5 | 3.2±3.3 |

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HBV Results-Immigrants

| Status | Adults (N, %) | Children (N, %) |
|---------------|------------------|---|
| Native Greeks | 2,558 (83%) | 53 (43%) <i>(or 2% of natives)</i> |
| Immigrants | 531 (17%) | 69 (57%) <i>(or 12% of immigrants)</i> |

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HBV Results-Immigrants

| Parameter | Native Greeks | Immigrants |
|--|---------------|------------|
| Current Age | 47.0±15.1 | 30.3±14.2 |
| Age (<i>at 1st diagnosis</i>) | 41.4±15.9 | 28.4±13.4 |
| Follow-up (<i>at the time of study entry</i>) | 3.3±3.6 | 1.2±1.9 |

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HBV Results-Immigrants

| Area of Origin | N | % |
|-----------------------|------------|----------------|
| Albania | 443 | 74% |
| <i>Eastern Europe</i> | 121 | 20% |
| Asia | 20 | 3.3% |
| Africa | 16 | 2.7% |
| Total | 600 | 1. 100% |

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HBV Results-Immigrants

Place of Residence in Greece by Nationality

| | Native Greeks | Immigrants |
|---------------------|----------------------|-------------------|
| <i>Urban</i> | 662 (25.7%) | 39 (7.0%) |
| Semi-urban | 272 (10.5%) | 39 (7.0%) |
| Rural | 1,645 (63.8%) | 483 (86.1%) |

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HBV Results-HBeAg Status

| | HBeAg | |
|----------|----------|------------|
| | Positive | Negative |
| Adults | 237 (8%) | 2872 (92%) |
| Children | 76 (62%) | 46 (38%) |

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HBV Results--HBeAg Status

| | HBeAg | |
|---------------|----------|------------|
| | Positive | Negative |
| Native Greeks | 194 (8%) | 2273 (92%) |
| Immigrants | 90 (17%) | 451 (83%) |

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HBV Results-Immigrants

Presence of Cirrhosis & HCC at the 1st Visit

| | Native Greeks | Immigrants |
|-------------------------|--------------------|------------------|
| Cirrhosis (N, %) | 195/2625 (7.4%) | 20/598 (3.3%) |
| HCC (N, %) | 25/2625 (1.0%) | 3/598 (0.5%) |

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HCV Results-Demographics

| | |
|---|---------------|
| Sex (Males, %) | 1670 (59%) |
| Current Age | 43.4±16.3 |
| Age (at 1st diagnosis) | 41.5±16.0 |
| Follow-up (at the time of study entry) | 2.6±3.3 years |

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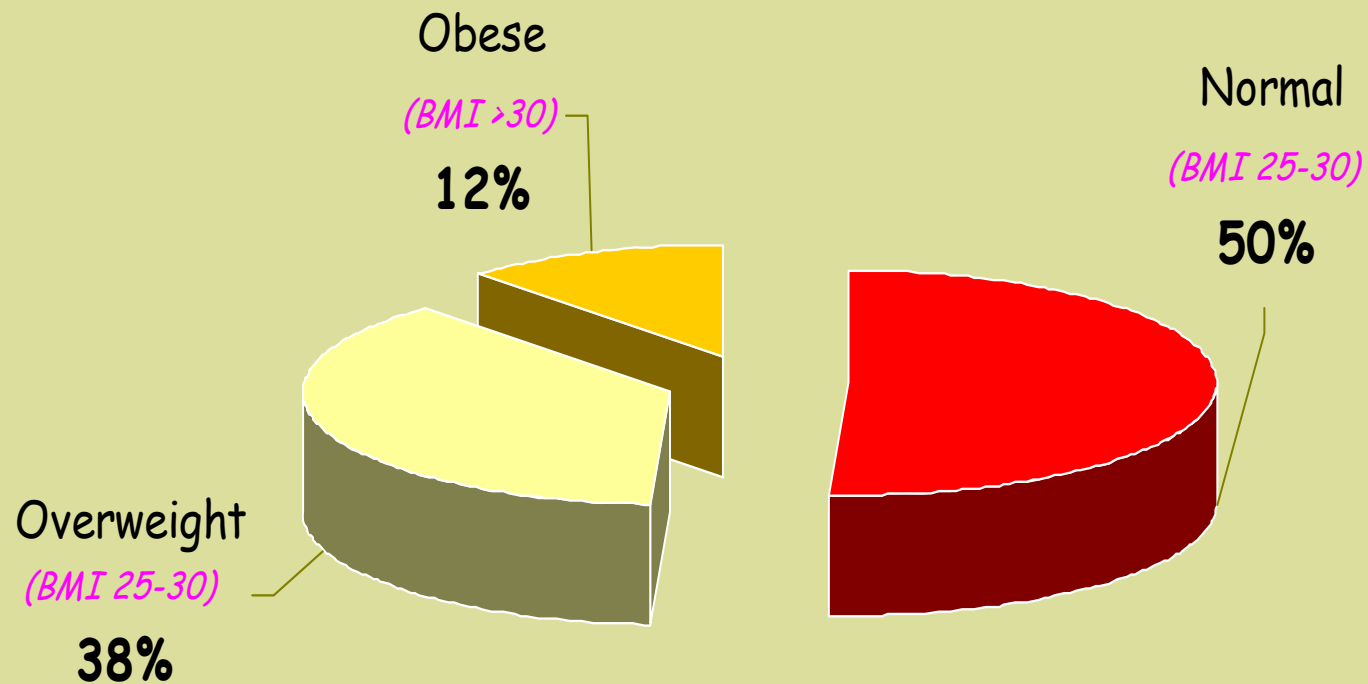
HCV Results-Epidemiological

Possible Source of Infection

| | |
|--|-------|
| Intravenous drug use | 30.7% |
| Transfusion(s) <i>(before 1992)</i> | 22.6% |
| Hospital admissions / Operations <i>(without Tx's. Before 1992)</i> | 3.4% |
| Professional exposure | 1.1% |
| Other | 5.6% |
| Unknown | 36.6% |

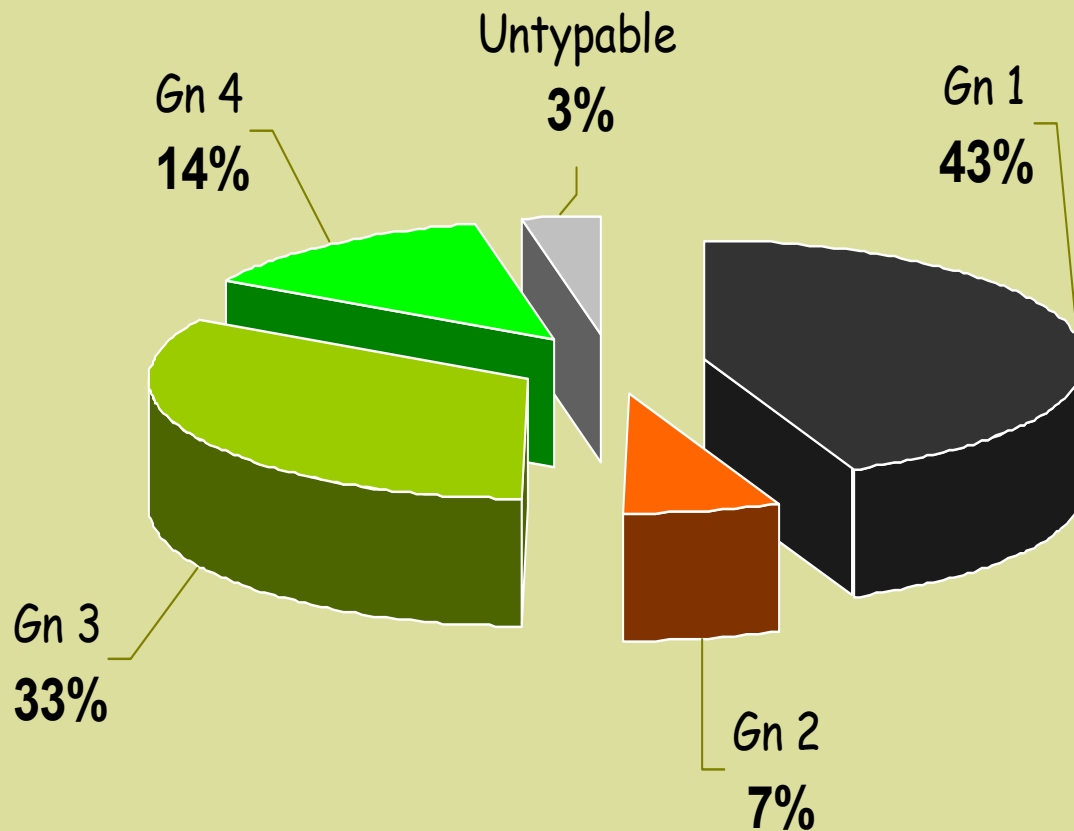
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HCV Results-Clinical



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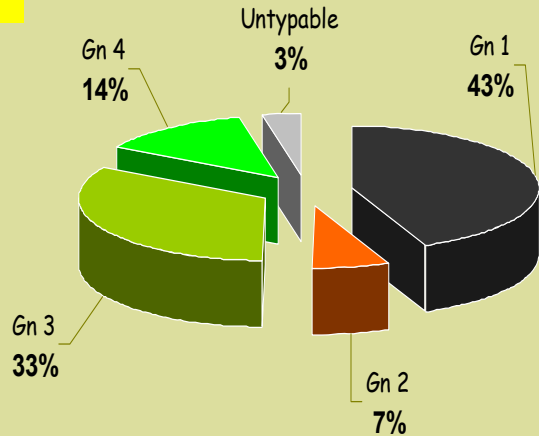
Distribution of HCV Genotypes in Greece



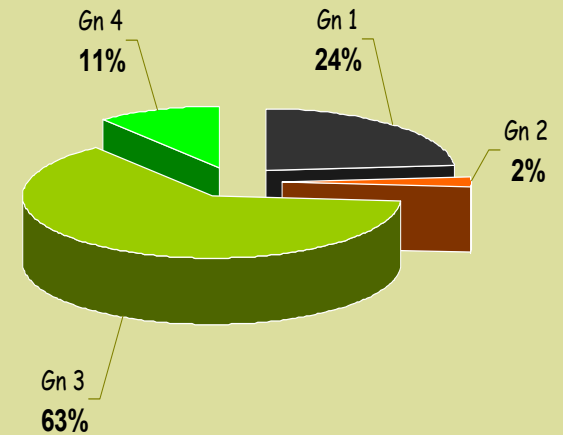
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HCV Genotypes in Greece

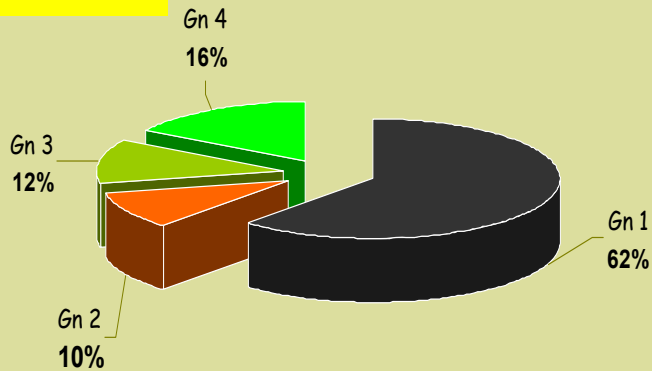
Overall



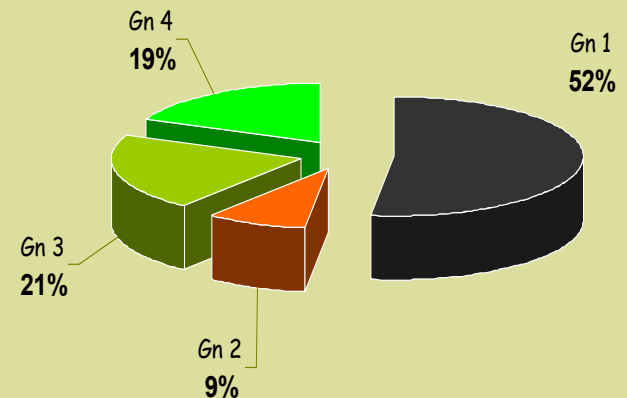
IVDU



Transfusions

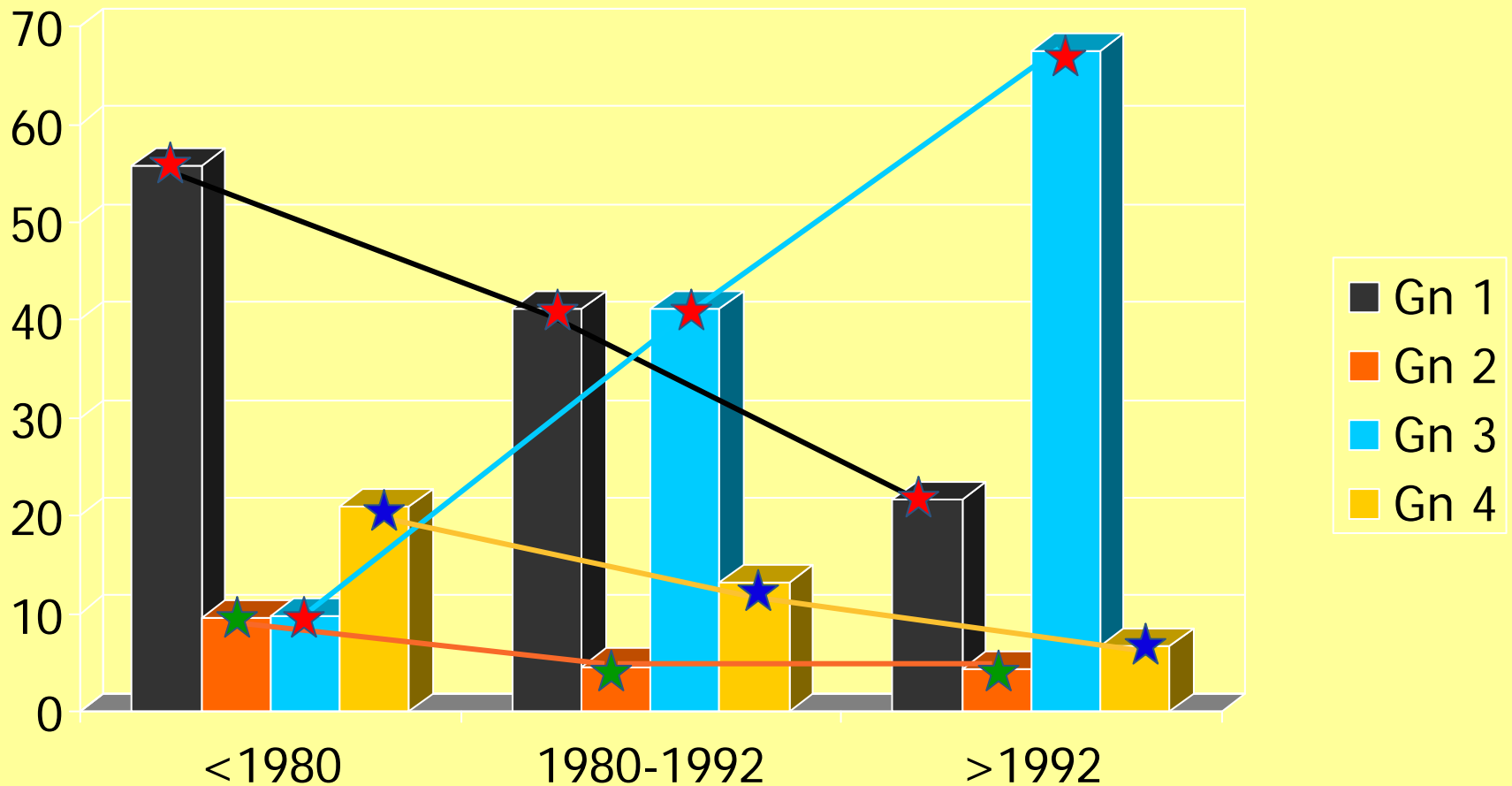


Unknown



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Temporal Change in the Distribution of HCV Genotypes in Greece



Thank you !

