



# Umfang der Erhebung

- Gestaffelter Beginn (ab 2000)
- Aktuell 1'779 Reanimationen erfasst
- Einzugsgebiet ca. 2 Mio. Einwohner
- Hauptsächlich flachländisch urban

Reanimation: Mythos und Fakten

Die Resultate: Out-of-Hospital

Web:

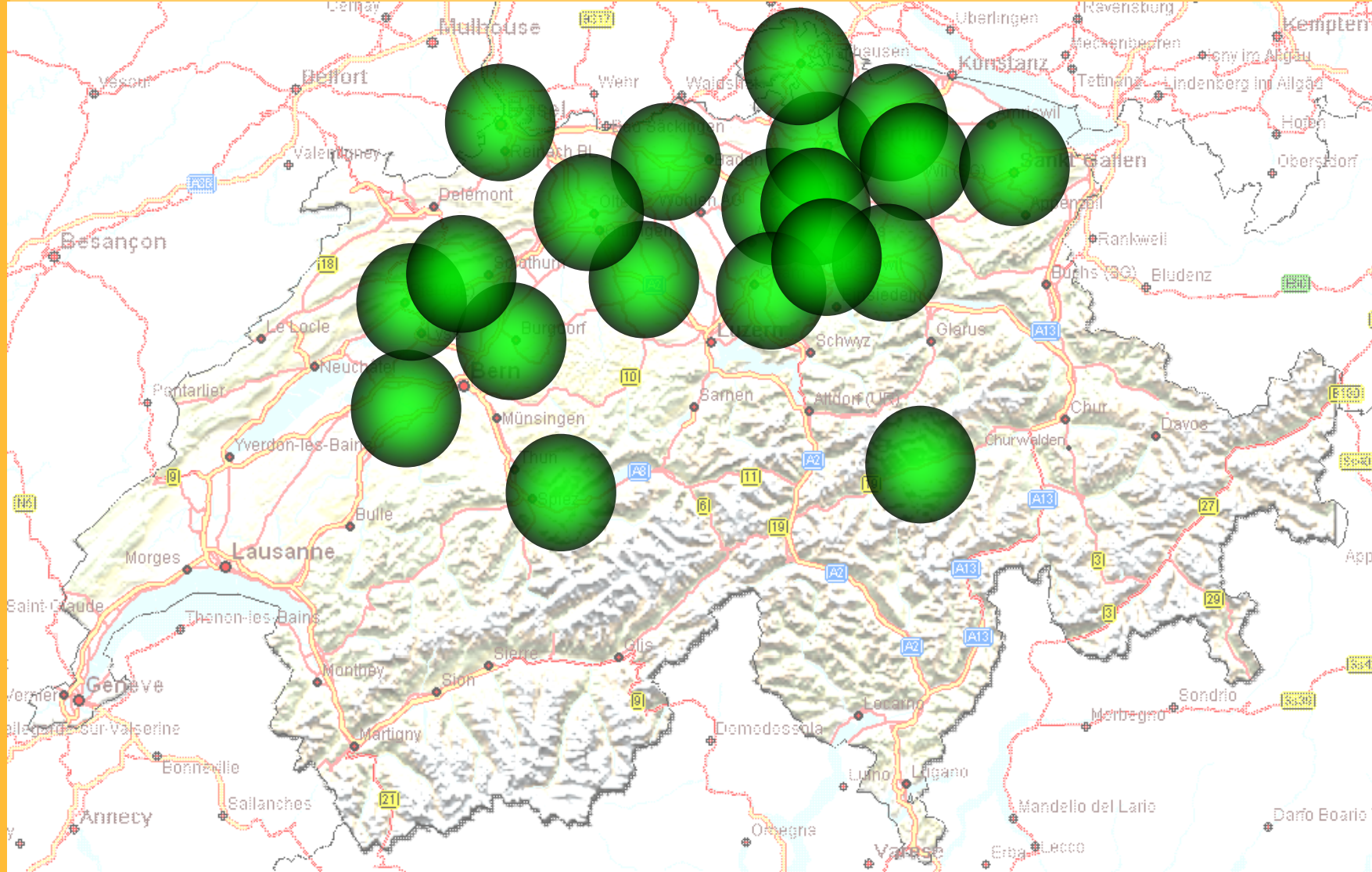
[www.resuscitation.ch](http://www.resuscitation.ch)

Mail:

[martin.brueesch@usz.ch](mailto:martin.brueesch@usz.ch)



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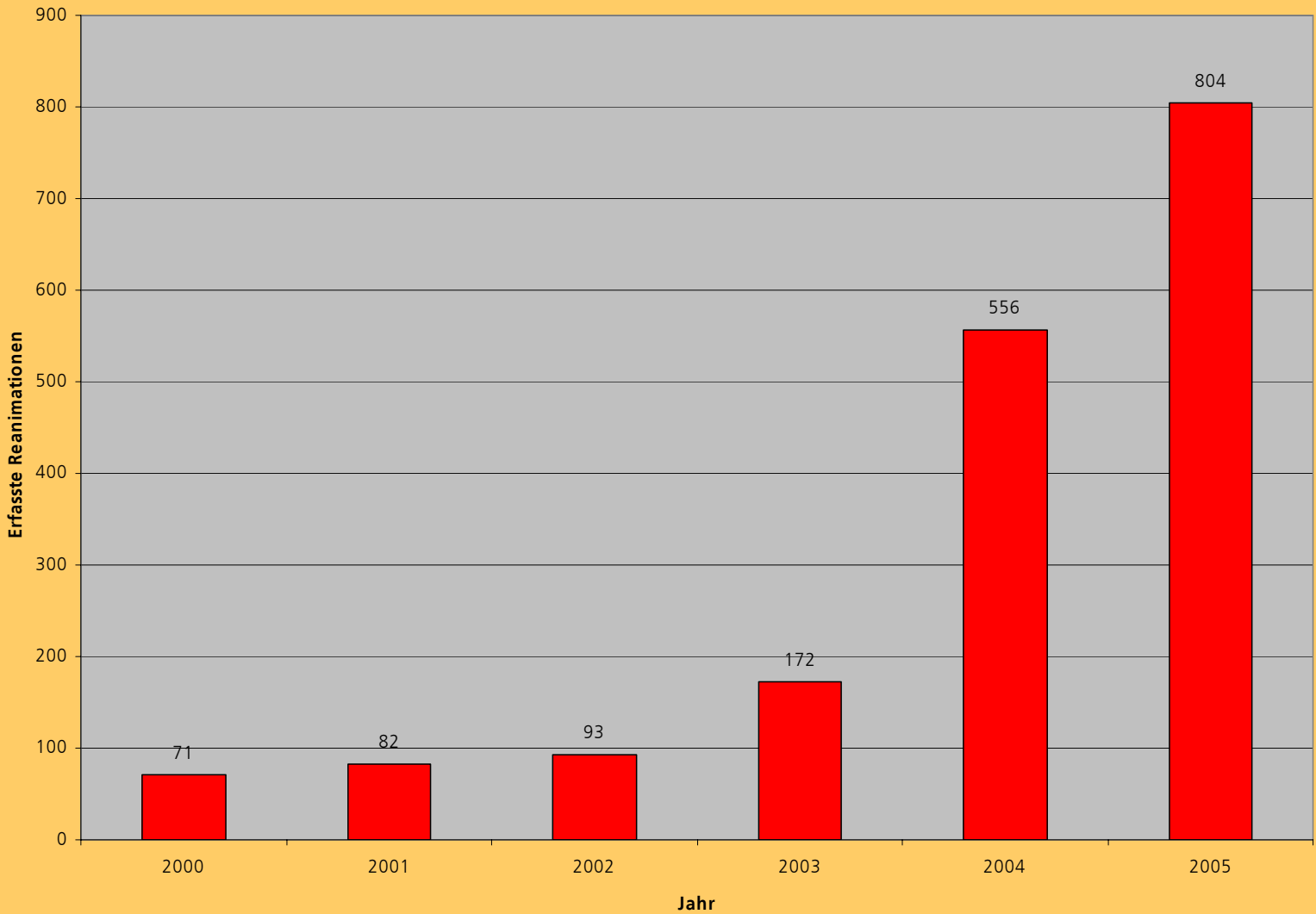
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# Erhaltene Daten

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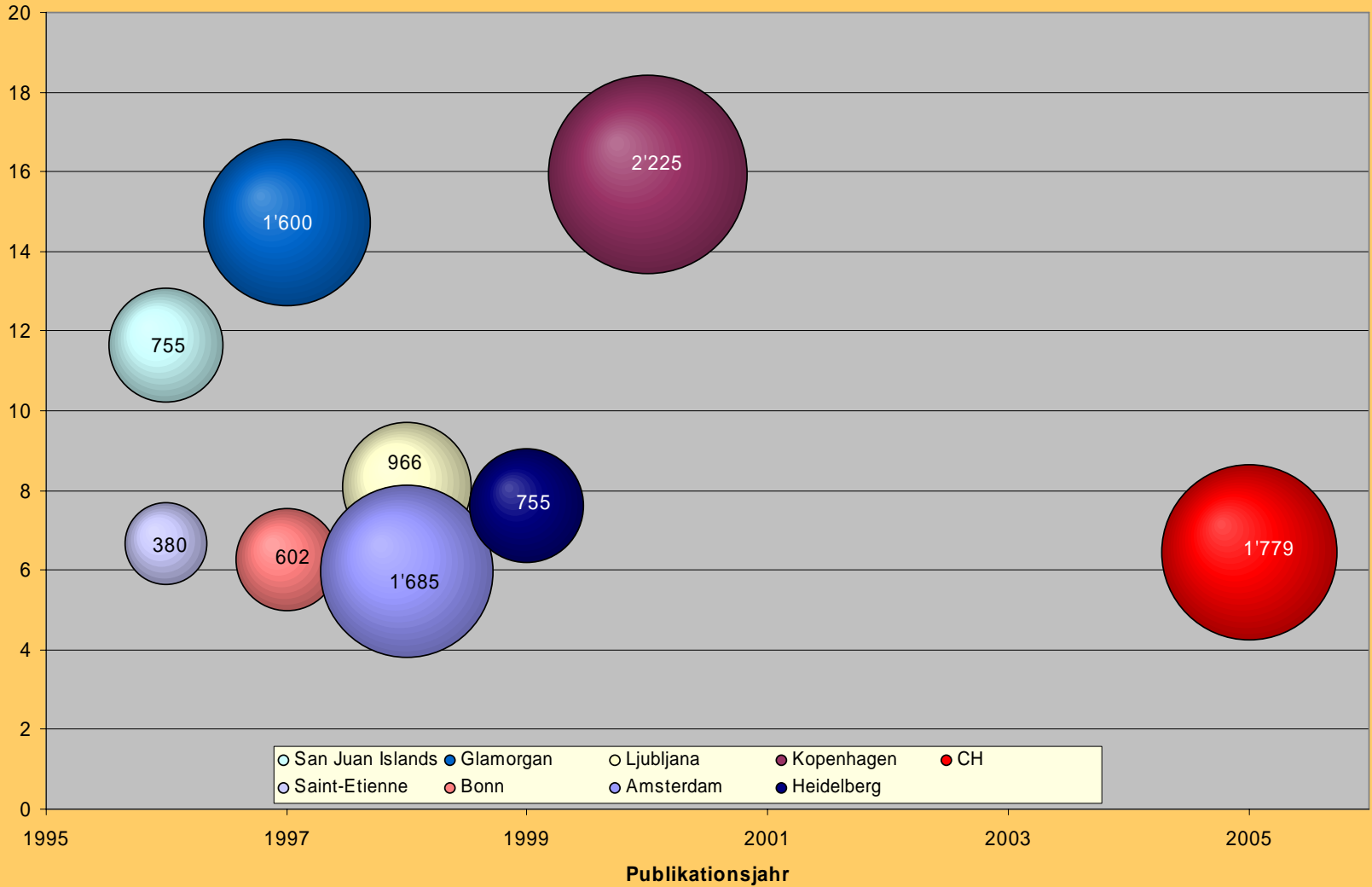
# Vergleichsdaten

- **Fredriksson M et al., Variation in Outcome in Studies of Out-of-Hospital Cardiac Arrest: A Review of Studies Conforming to the Utstein Guidelines. Am-J-Emerg-Med 2005;21:276-81**
- **1. Amsterdam:** Waalewijn RA et al., Out-of-hospital cardiac arrests in Amsterdam and its surrounding areas: results from the Amsterdam resuscitation study (ARREST) in Utstein style. Resuscitation 1998;38:157-67
- **2. Bonn:** Fischer M et al., One-year survival after out-of-hospital cardiac arrest in Bonn city: outcome report according to the „Utstein Style“. Resuscitation 1997;33:233-43
- **3. Kopenhagen:** Rewers M et al., One-year survival after out-of-hospital cardiac arrest in Copenhagen according to the „Utstein style“. Resuscitation 2000;47:137-46
- **4. Glamorgan:** Weston CFM et al., Outcome of out-of-hospital cardiorespiratory arrest in South Glamorgan. Resuscitation 1997;34:227-33
- **5. Ljubljana:** Tadel S et al., Treatment of out-of-hospital cardiac arrest in Ljubljana: outcome report according to the „Utstein“ style. Resuscitation 1998;38:169-76
- **6. Saint-Etienne:** Giraud F et al., Out-of-hospital cardiac arrest. Evaluation of one year of activity in Saint-Etienne's emergency medical system using the Utstein style. Resuscitation 1996;33:19-27
- **7. San Juan Islands:** Killien SY et al., Out-of-Hospital Cardiac Arrest in a Rural Area: A 16-Year Experience with Lessons Learned and National Comparisons. Annals of Emergency Medicine 1996;28:294-300
- **8. Heidelberg:** Böttiger BW et al., Long term outcome after out-of-hospital cardiac arrest with physician staffed emergency medical services: the Utstein style applied to a mid-sized urban/suburban area. Heart 1999;82:674-679



# Inzidenz

Cardiac Arrests pro Jahr  
pro 10'000 Einwohner



Reanimation: Mythos und Fakten

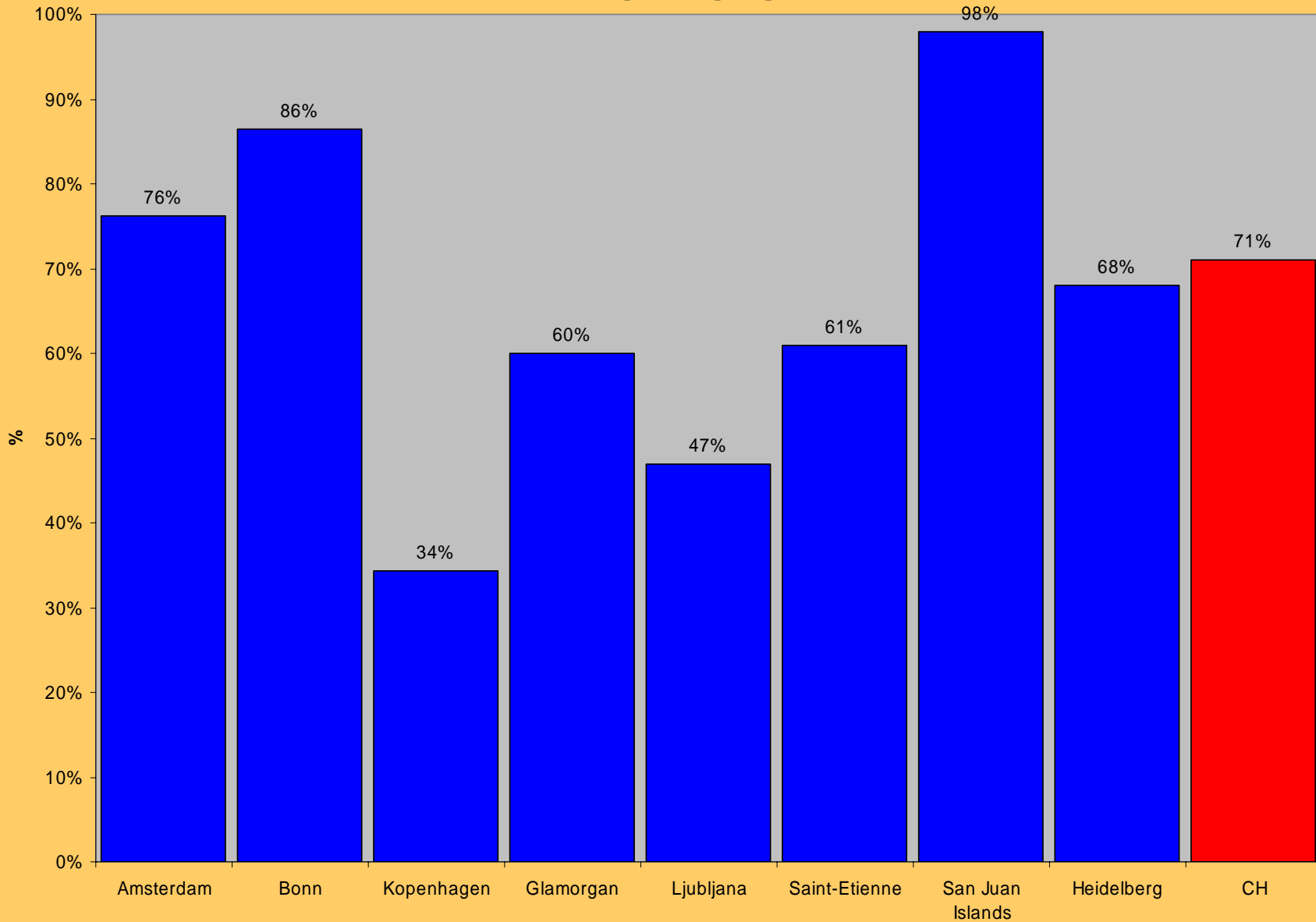
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# Durch Notfallequippe reanimiert



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Web:

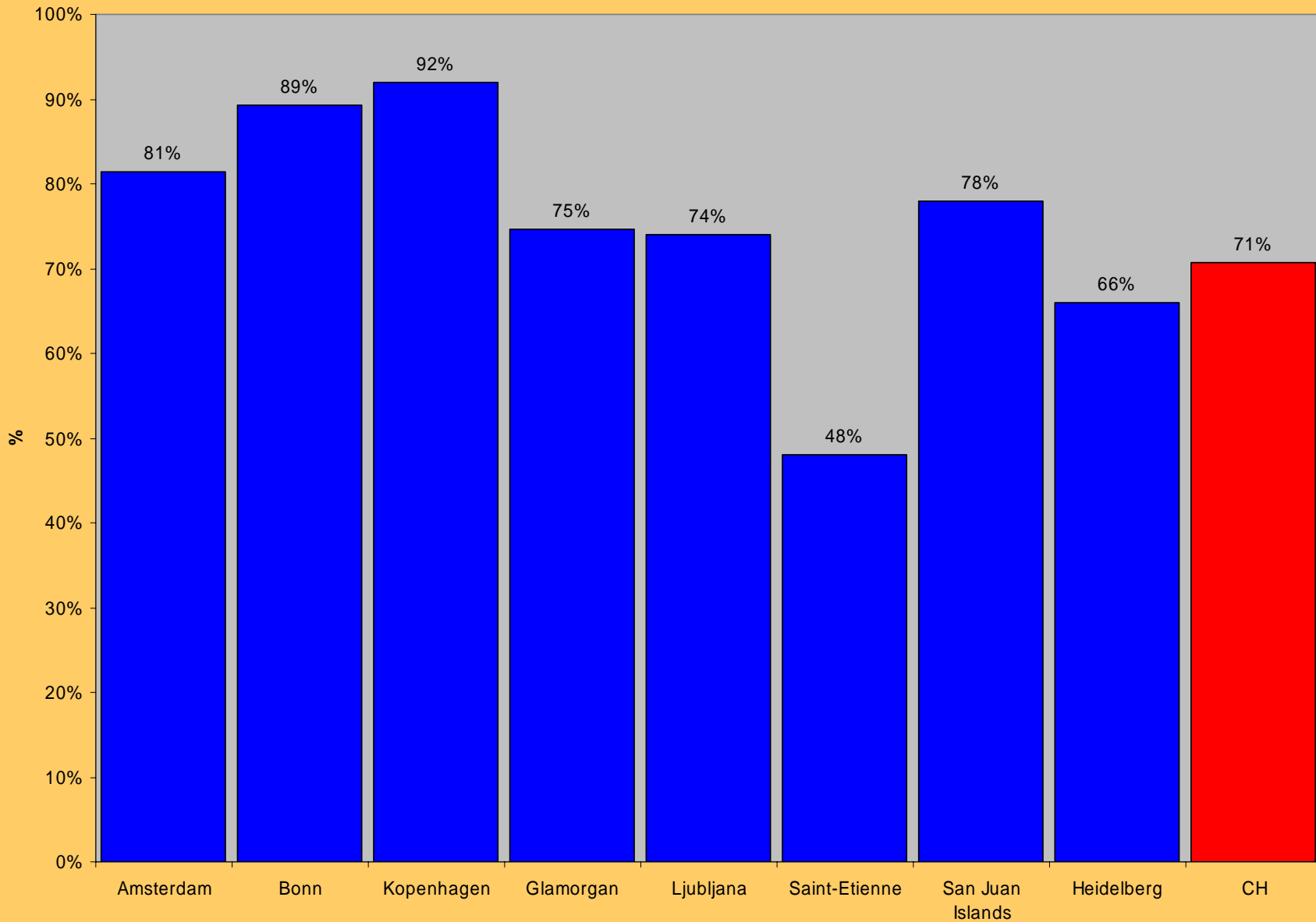
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# Cardiale Ursache



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Web:

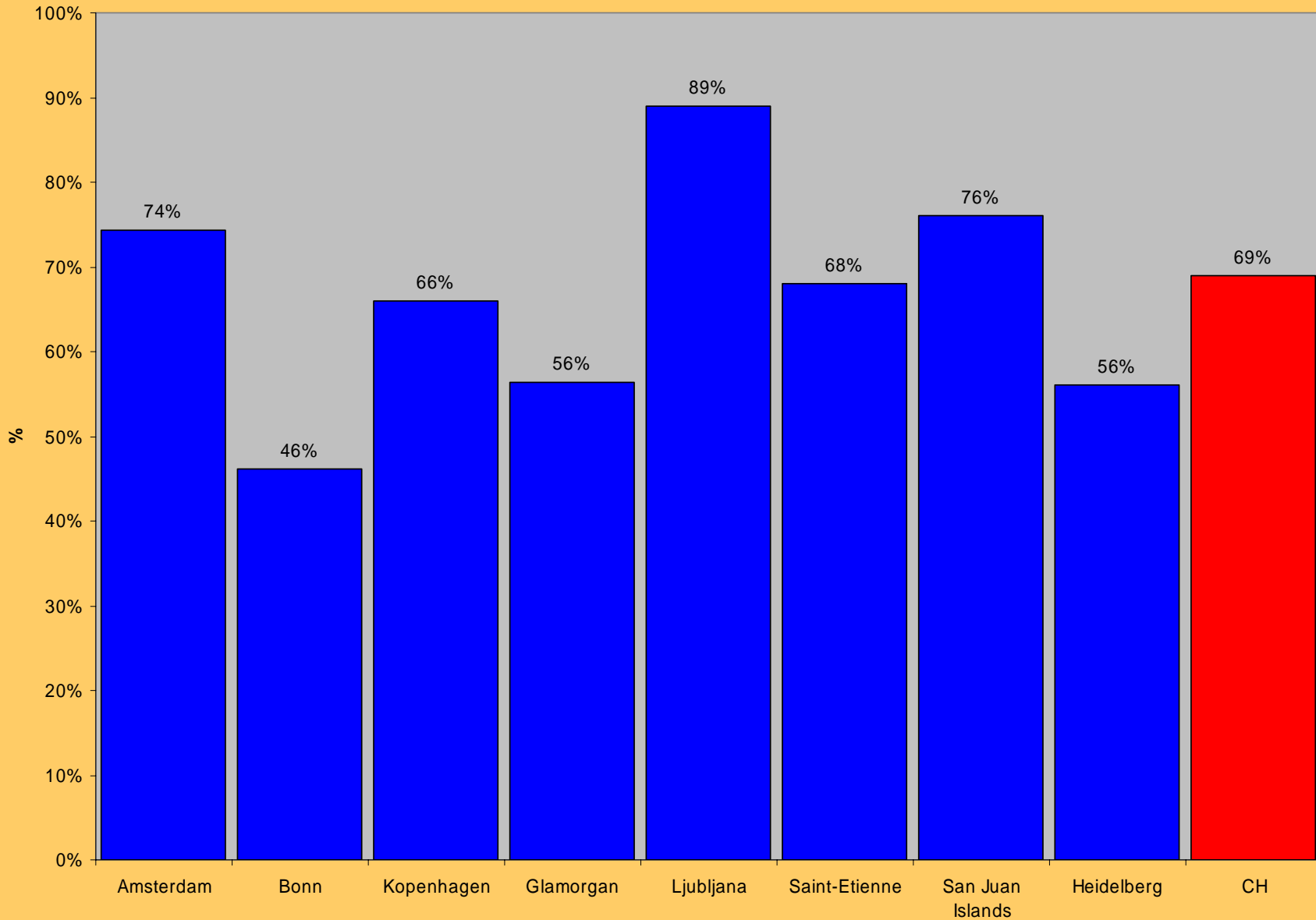
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# Kollaps durch Laien beobachtet



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Web:

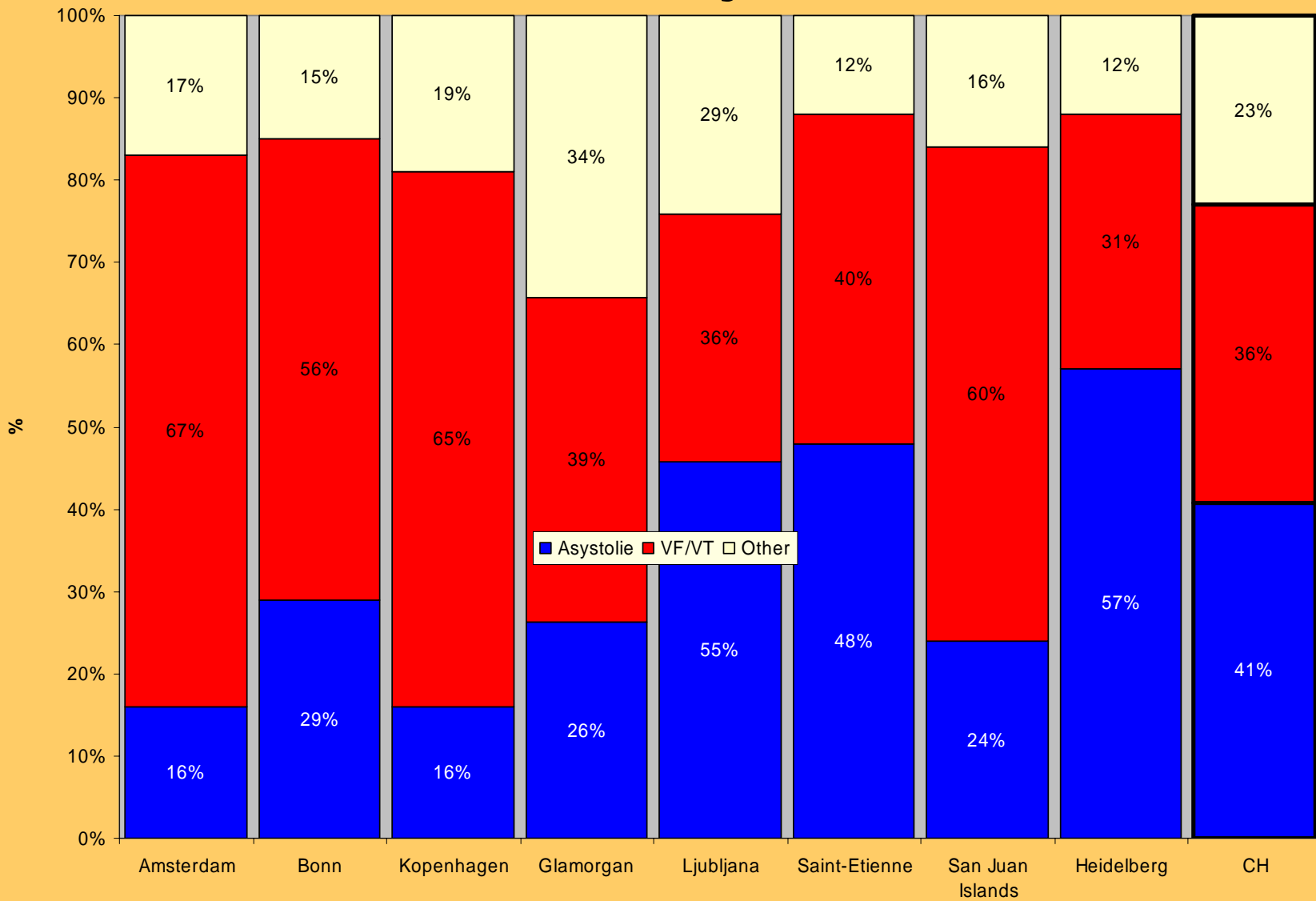
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# Primärer Rhythmus



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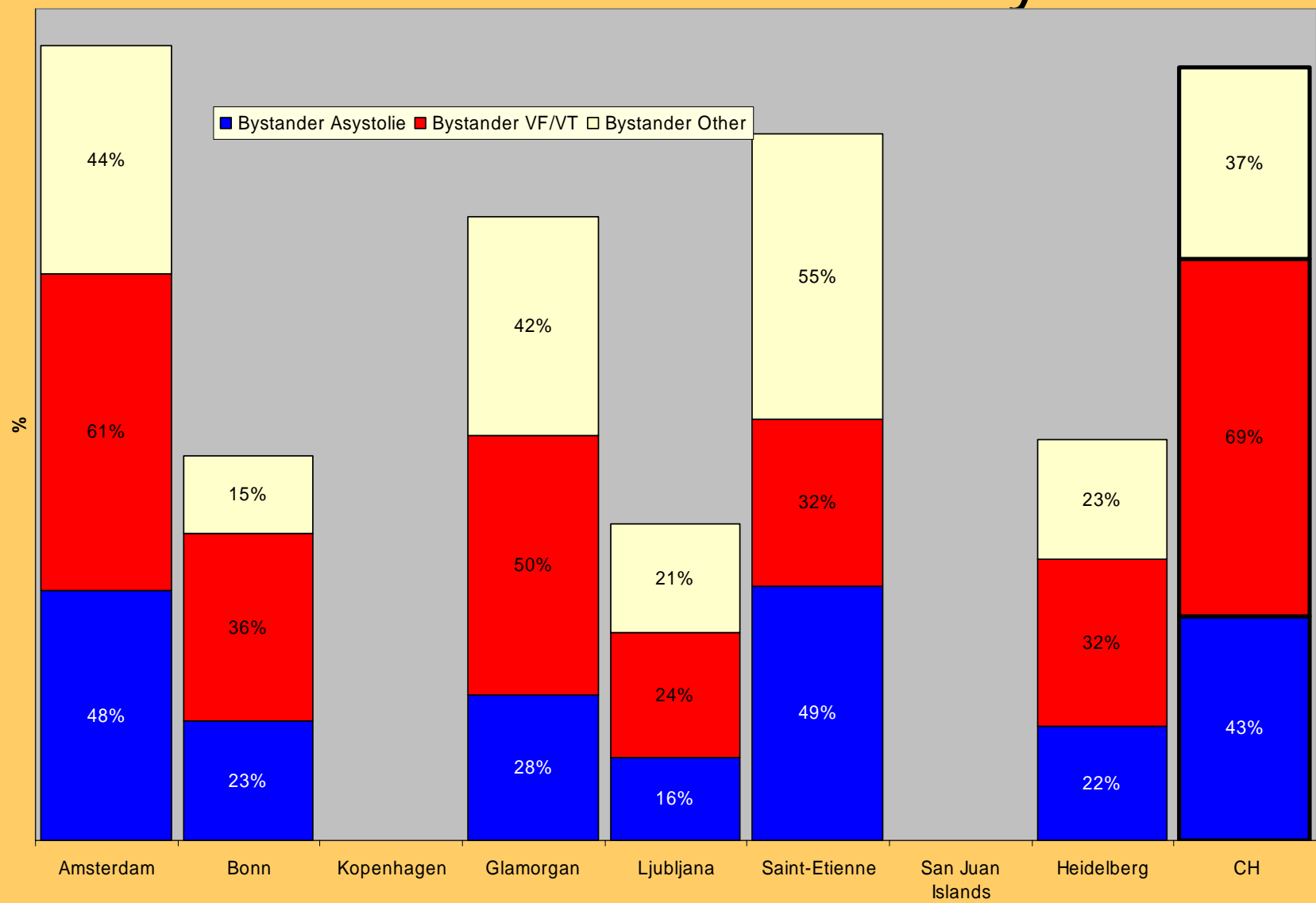
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# Laienreanimation nach Rhythmus



Reanimation: Mythos und Fakten

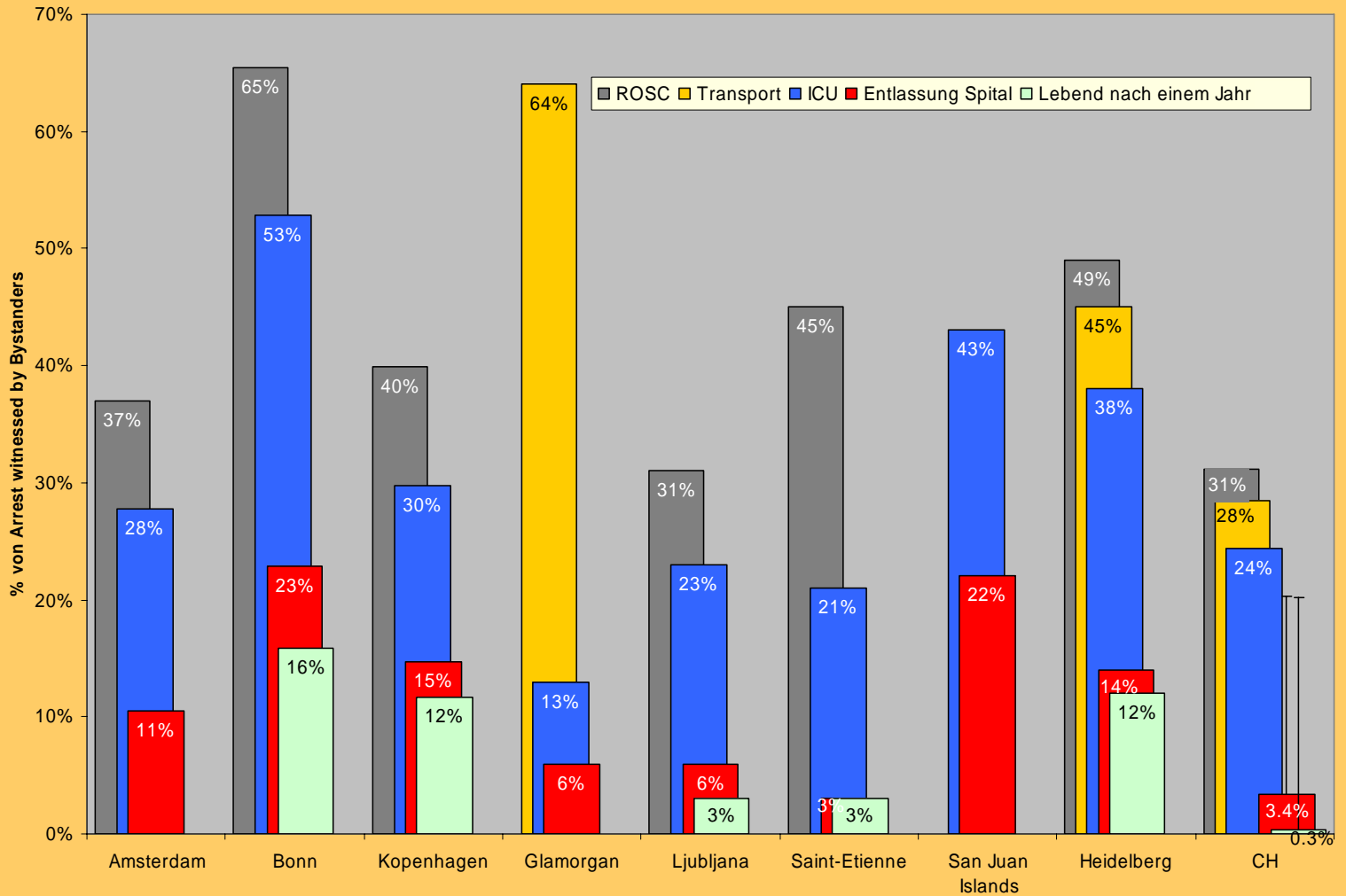
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# Verlauf

Bystander witnessed = 100%



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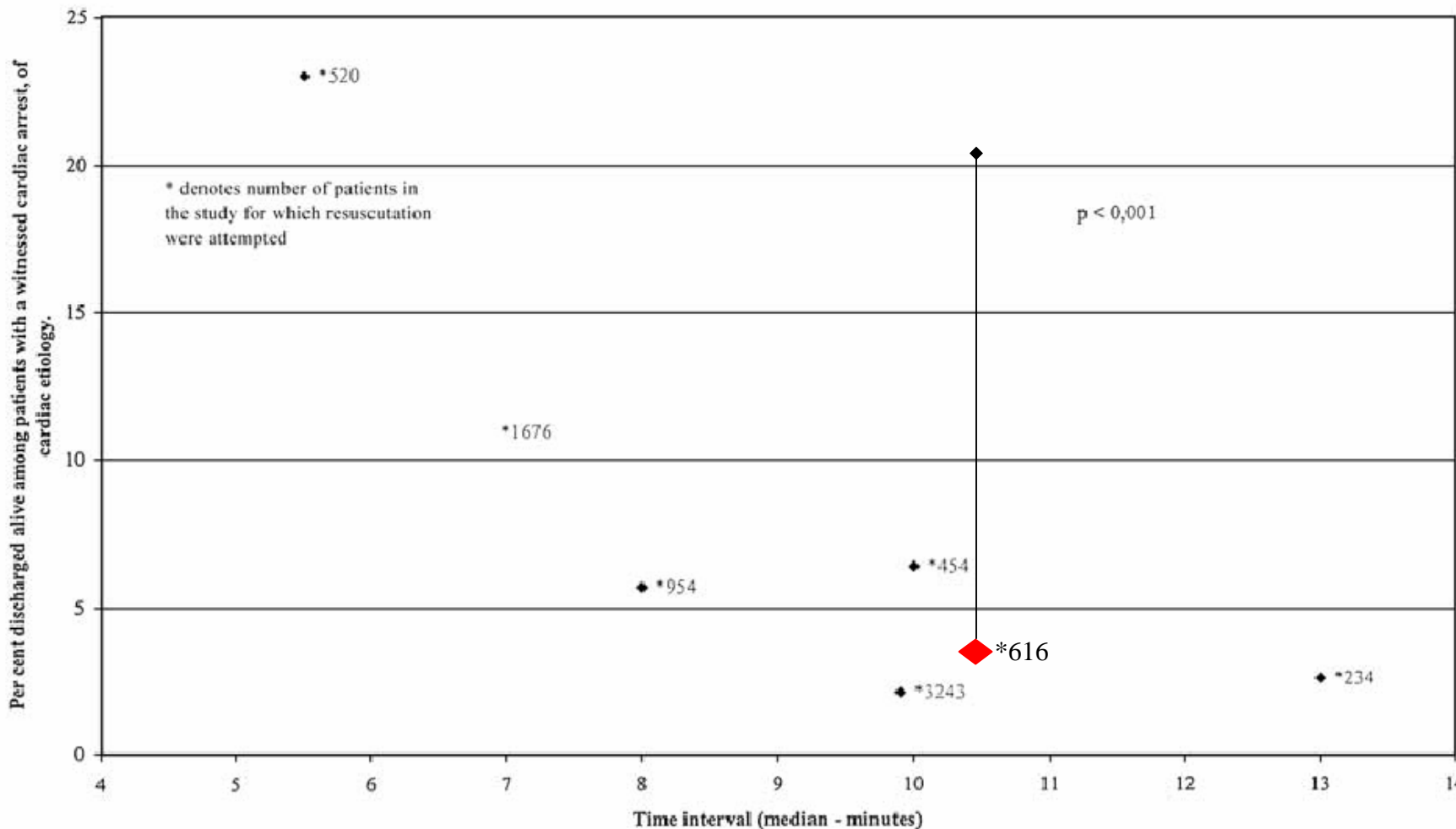
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# Call-Response Intervall

Variation in Outcome in Studies of Out-of-Hospital Cardiac Arrest: A Review of Studies Conforming to the Utstein Guidelines

MARTIN FREDRIKSSON,\* J. HERLITZ, MD,\* AND G. NICHOL, MD†



Reanimation: Mythos und Fakten

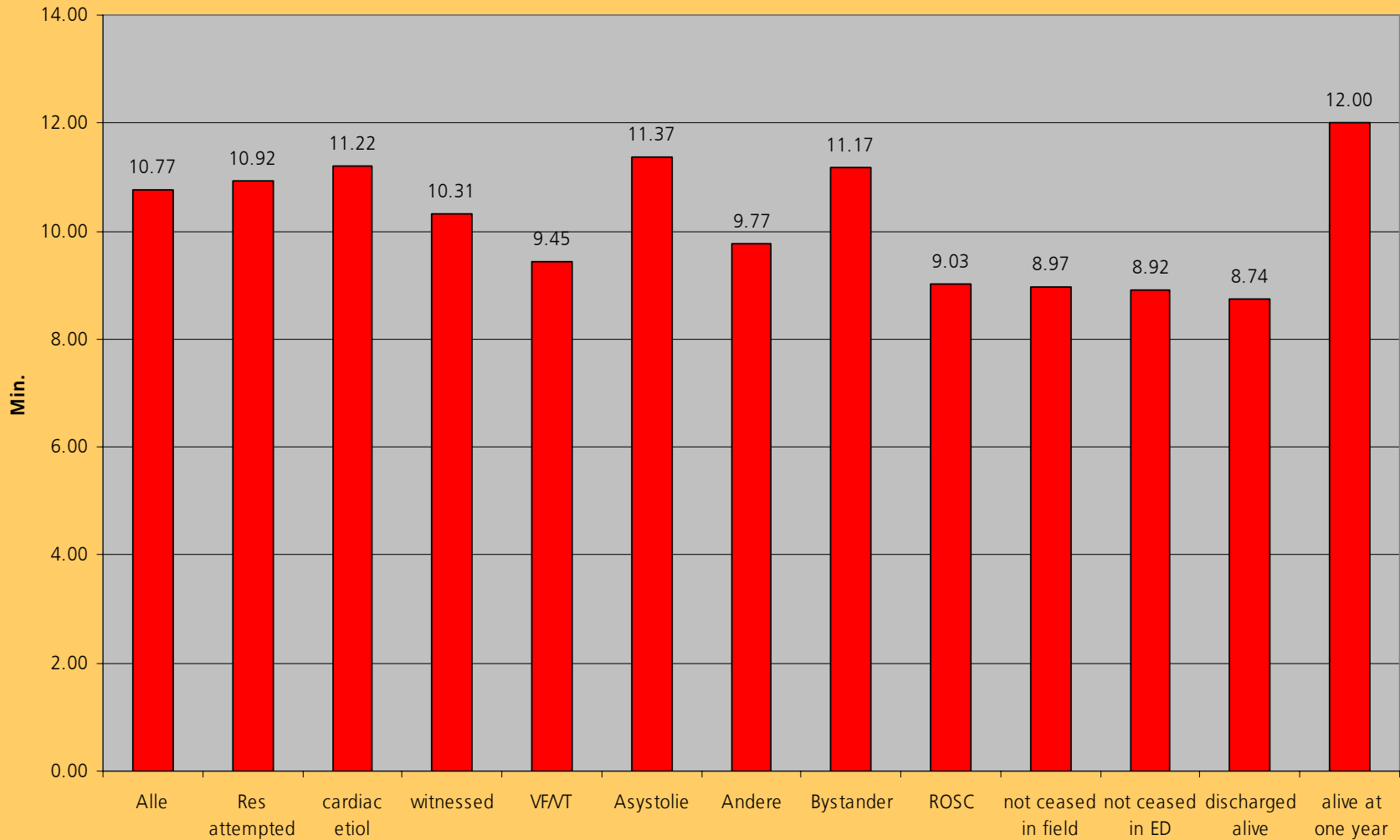
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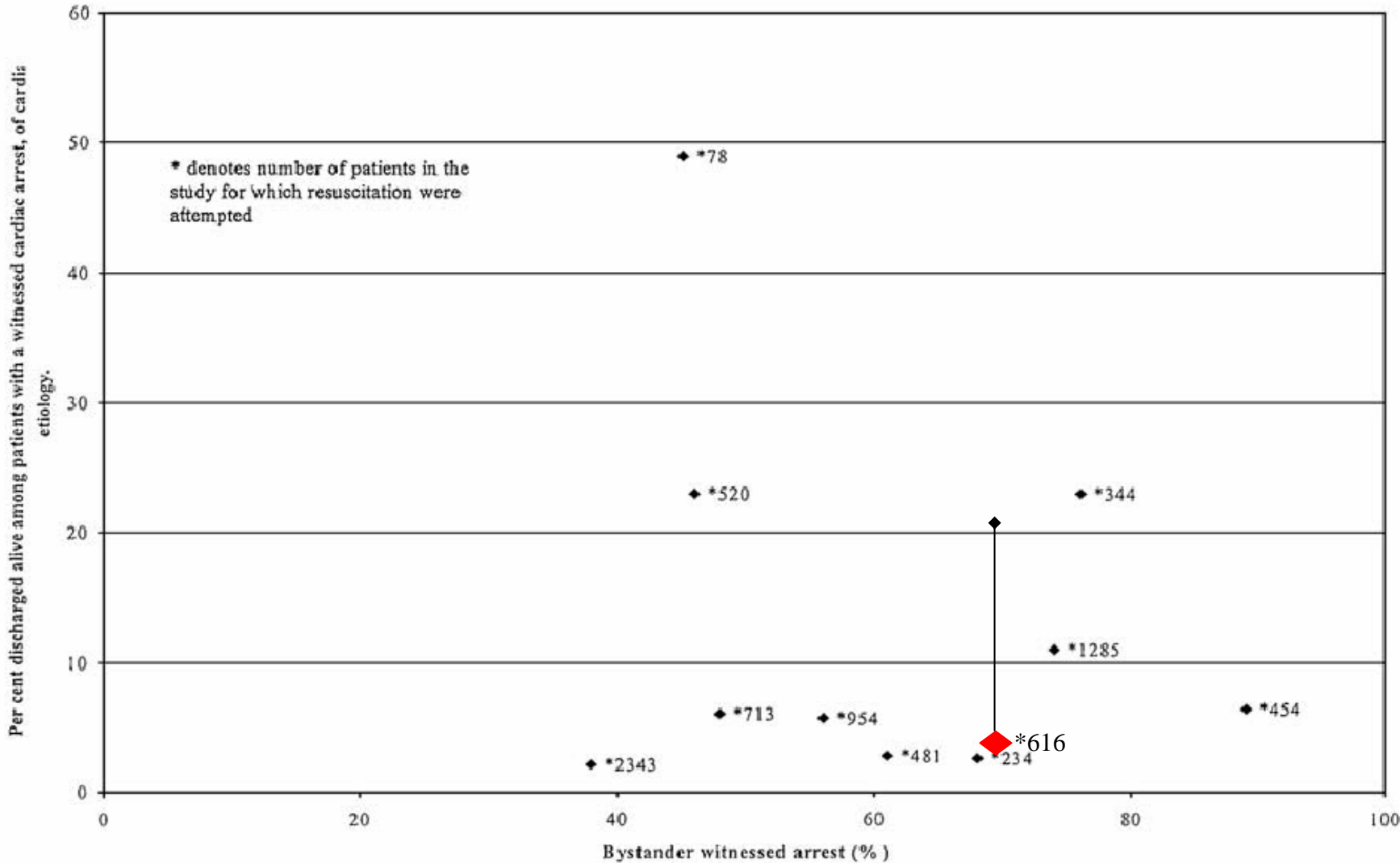
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# Bystander witnessed

## Variation in Outcome in Studies of Out-of-Hospital Cardiac Arrest: A Review of Studies Conforming to the Utstein Guidelines

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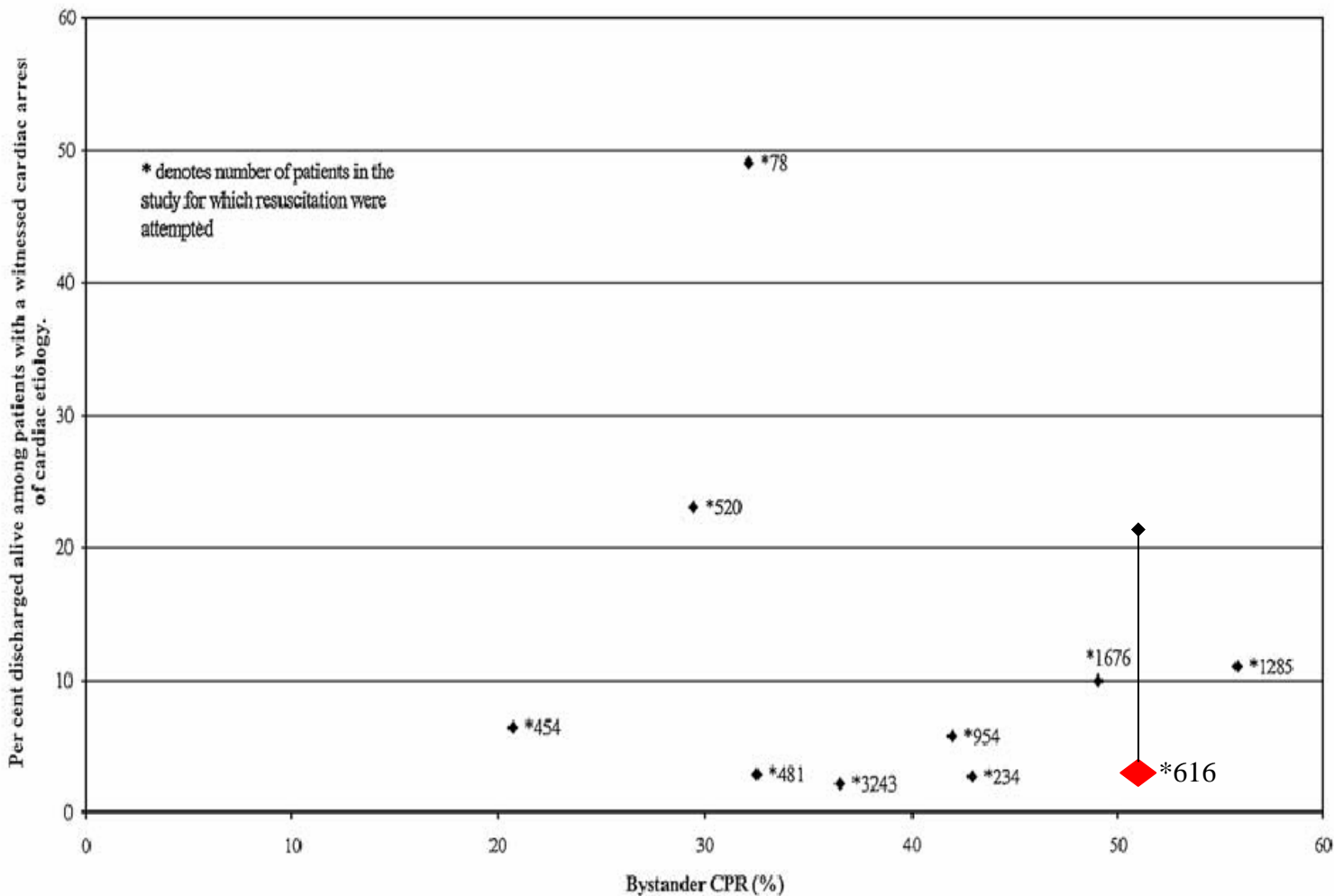
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# Bystander CPR



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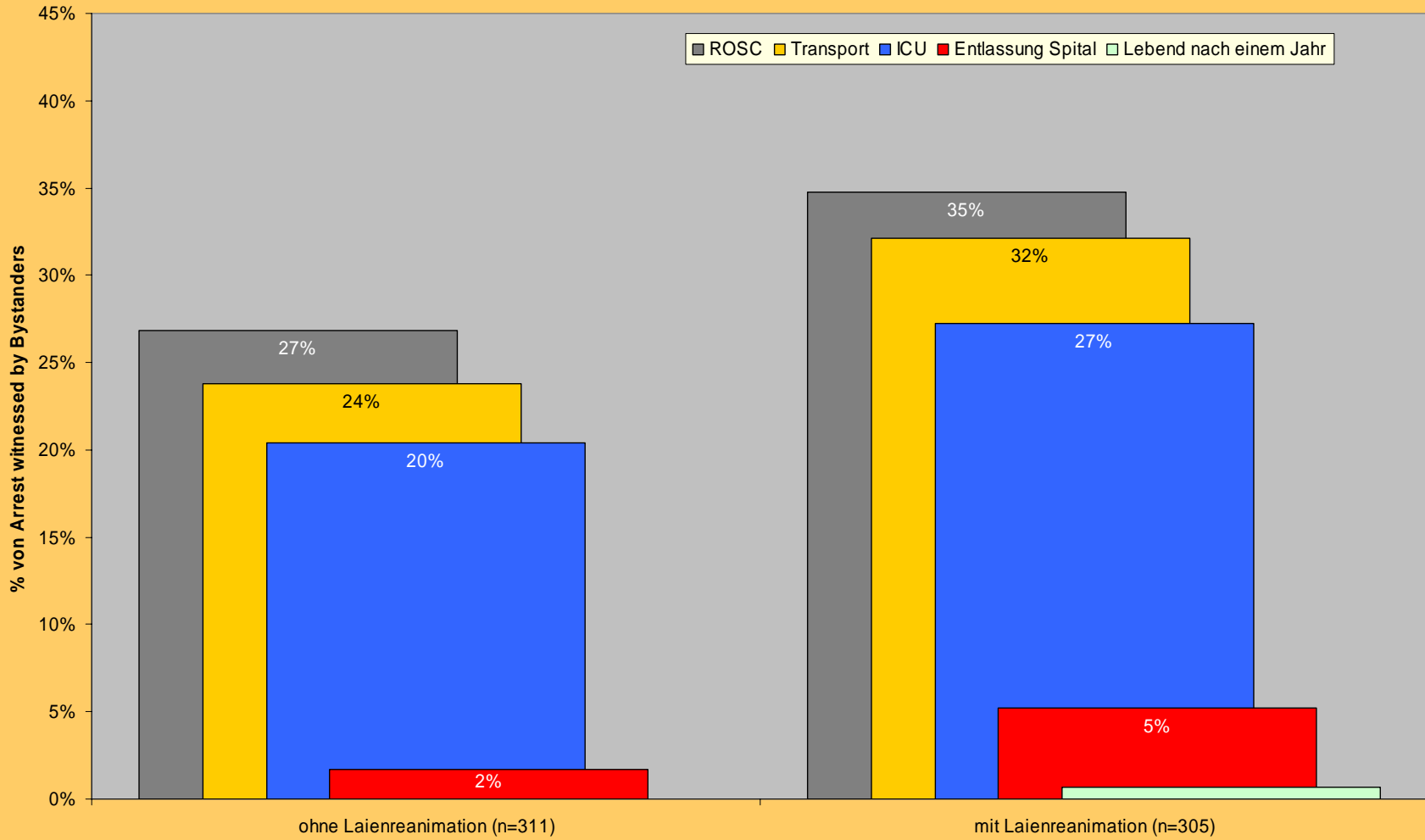
Mail: [martin.brueesch@usz.ch](mailto:martin.brueesch@usz.ch)



# Laienreanimation

Reanimation: Mythos und Fakten

Die Resultate: Out-of-Hospital





## Incidence of EMS-treated out-of-hospital cardiac arrest in Europe<sup>☆</sup>

Christie Atwood<sup>a</sup>, Mickey S. Eisenberg<sup>b,c,\*</sup>, Johan Herlitz<sup>d</sup>, Thomas D. Rea<sup>b,c</sup>

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<sup>b</sup> Department of Medicine, University of Washington, Seattle, WA, USA

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<sup>d</sup> Division of Cardiology, Sahlgrenska University Hospital, Gothenburg, Sweden

- 32 Studien out-of-hospital aus Europa (17'761 Fälle)
  - 10.7% Überleben nach 1. Monat nach CA
  - 21.2% Überleben nach 1. Monat nach VF
- Utstein-Projekt Schweiz (1'779 Fälle)
  - 3.7% Spitalaustritt nach CA **11.1% ??**
  - 10.6% Spitalaustritt nach VF **31.8% ??**



# Gründe für die vergleichsweise schlechten Resultate

- Fehlende DNAR Richtlinien
- Hoher Anteil an Reanimationen bei nicht primär cardial bedingten CA
- Call-Response-Intervall optimierbar
- Sehr geringer Anteil an ROSC
- Qualität der Laienreanimation?
- Qualität der Reanimation durch Professionals?



# Reanimation: Mythos und Fakten

## Die Resultate: Out-of-Hospital

