

UnHealthy Housing 2002

As Safe as Houses?
Accident and fire risk in the home

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Dr Richard Moore

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Dr Richard Moore

Visiting Fellow, University of Warwick

Contents of talk (based on analysis of safety and fire hazards for HHSRS statistics)

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1- 3: Introduction and aims of analysis

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- 4- 5: Main primary sources for accident and fire risks

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- 8-11:** Non-fatal accident data and catchment areas

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- 12-14: The range of sample sizes for safety hazards

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- 15-19:** Accident rates and outcomes for vulnerable groups

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- 14-18: Accident rates and outcomes by housing type

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- 12-14: The range of sample sizes for safety hazards
- 15-19: Accident rates and outcomes for vulnerable groups
- 14-18: Accident rates and outcomes by housing type
- 18-21: Summary of problems, recommendations and goals

1. Accidents in the home compared to those at work and on the road (1995)

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- At Work

1. Accidents in the home compared to those at work and on the road (1995)

- At Work
- On the Road

1. Accidents in the home compared to those at work and on the road (1995)

- At Work
- On the Road
- In the Home

1. Accidents in the home compared to those at work and on the road (1995)

Killed

Injured

- At Work
- On the Road
- In the Home

1. Accidents in the home compared to those at work and on the road (1995)

	<u>Killed</u>	<u>Injured</u>
● At Work	376	1,500,000
● On the Road		
● In the Home		

1. Accidents in the home compared to those at work and on the road (1995)

	<u>Killed</u>	<u>Injured</u>
● At Work	376	1,500,000
● On the Road	3,598	316,704
● In the Home		

1. Accidents in the home compared to those at work and on the road (1995)

	<u>Killed</u>	<u>Injured</u>
● At Work	376	1,500,000
● On the Road	3,598	316,704
● In the Home	4,066	2,700,000

2. Accident related hazards and statistics required for each hazard

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Accident related hazards:-

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Accident related hazards:-

- Falls on level

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
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- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision

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- Entrapment or collision
- Poor ergonomics

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- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
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- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
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- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class I - fatal

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class 1 - fatal
 - % Class 2 - severe

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class 1 - fatal
 - % Class 2 - severe
 - % Class 3 - serious

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class 1 - fatal
 - % Class 2 - severe
 - % Class 3 - serious
 - % Class 4 - moderate

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class 1 - fatal
 - % Class 2 - severe
 - % Class 3 - serious
 - % Class 4 - moderate

Breakdown statistics by:-

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class 1 - fatal
 - % Class 2 - severe
 - % Class 3 - serious
 - % Class 4 - moderate

Breakdown statistics by:-

- Age of victim

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class 1 - fatal
 - % Class 2 - severe
 - % Class 3 - serious
 - % Class 4 - moderate

Breakdown statistics by:-

- Age of victim
- Age & type of housing

2. Accident related hazards and statistics required for each hazard

Accident related hazards:-

- Falls on level
- Falls on stairs
- Falls between levels
- Falls related to baths etc
- Hot surfaces & materials
- Electrical hazards
- Fire hazards
- Uncombusted fuel gas
- Structural failure
- Explosions
- Entrapment or collision
- Poor ergonomics

For each hazard determine:-

- 1) Annual likelihood of accident
 - 1 in 1000 etc
- 2) Av. spread of health outcomes
 - % Class 1 - fatal
 - % Class 2 - severe
 - % Class 3 - serious
 - % Class 4 - moderate

Breakdown statistics by:-

- Age of victim
- Age & type of housing

3. Examples of health outcomes by category relevant to accidents in the home

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

Class II – Severe

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

Class II – Severe

Class III – Serious

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

Class II – Severe

Class III – Serious

Class IV - Moderate

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

- Death
- Permanently unconscious
- Near total paralysis
- 80% burn injuries

Class II – Severe

Class III – Serious

Class IV - Moderate

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

- Death
- Permanently unconscious
- Near total paralysis
- 80% burn injuries

Class II – Severe

- Loss of hand or foot
- Unconscious for days
- Very severe fractures
- Very severe burns

Class III – Serious

Class IV - Moderate

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

- Death
- Permanently unconscious
- Near total paralysis
- 80% burn injuries

Class II – Severe

- Loss of hand or foot
- Unconscious for days
- Very severe fractures
- Very severe burns

Class III – Serious

- Loss of finger
- Severe concussion
- Serious puncture wound
- Severe burns to hands

Class IV - Moderate

3. Examples of health outcomes by category relevant to accidents in the home

Class I – Extreme

- Death
- Permanently unconscious
- Near total paralysis
- 80% burn injuries

Class II – Severe

- Loss of hand or foot
- Unconscious for days
- Very severe fractures
- Very severe burns

Class III – Serious

- Loss of finger
- Severe concussion
- Serious puncture wound
- Severe burns to hands

Class IV - Moderate

- Broken finger
- Slight concussion
- Severe bruising
- 10% burns

4. Main data sources used in estimating accident risk in housing in England & Wales

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97-99 Accident data by postcode

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97-99 Accident data by postcode

Mortality data (Coroners records)

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode Postcoded population data

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons
- Age of persons

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons
- Age of persons

Housing data by postcode

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons
- Age of persons

Housing data by postcode

RESIDATA (from ISL)

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons
- Age of persons

Housing data by postcode

RESIDATA (from ISL)

- Number of addresses

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons
- Age of persons

Housing data by postcode

RESIDATA (from ISL)

- Number of addresses
- Dominant age of housing

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons
- Age of persons

Housing data by postcode

RESIDATA (from ISL)

- Number of addresses
- Dominant age of housing
- Dominant type of housing

4. Main data sources used in estimating accident risk in housing in England & Wales

97-99 Accident data by postcode

Mortality data (Coroners records)

- Number of fatal accidents
- Cause of accident
- Age of victim

Home Accident Surveillance System

- Number of non-fatal accidents
- Type of accident
- Age of victim
- Data relevant to class of harm

Postcoded population data

CACI data/EHCS/OU ward est.

- Number of persons
- Age of persons

Housing data by postcode

RESIDATA (from ISL)

- Number of addresses
- Dominant age of housing
- Dominant type of housing
- Average property value

5. Main data sources used in estimating fire risk in housing in England & Wales

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1997-99 Fire data by postcode

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

Brigade class of harm data

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)
- Causes of injury (24 categories)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)
- Causes of injury (24 categories)
- Fatal or non-fatal

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)
- Causes of injury (24 categories)
- Fatal or non-fatal

HASS class of harm data

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)
- Causes of injury (24 categories)
- Fatal or non-fatal

HASS class of harm data

- Type of injury (65 categories)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

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- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)
- Causes of injury (24 categories)
- Fatal or non-fatal

HASS class of harm data

- Type of injury (65 categories)
- Body part injured (54 categories)

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)
- Causes of injury (24 categories)
- Fatal or non-fatal

HASS class of harm data

- Type of injury (65 categories)
- Body part injured (54 categories)
- Hospital outcome

5. Main data sources used in estimating fire risk in housing in England & Wales

1997-99 Fire data by postcode

Attended fires (Brigade returns)

- Number of fatalities & injuries
- Age of victims
- Data relevant to class of harm

HASS fire cases (17% attended)

- Number of non-fatal accidents
- Age of victim
- Data relevant to class of harm

BCS & EHCS data (not used)

Brigade class of harm data

- Type of injury (10 categories)
- Causes of injury (24 categories)
- Fatal or non-fatal

HASS class of harm data

- Type of injury (65 categories)
- Body part injured (54 categories)
- Hospital outcome
- Number of inpatient days

6. Annual fatal falls 97-99 by type and place of fall - before and after reallocating missing data

- 'Other fatal falls' include :- From ladder or scaffolding; into hole or other open surface; from bed or chair; from one level to another unspecified; on the level – pushing.

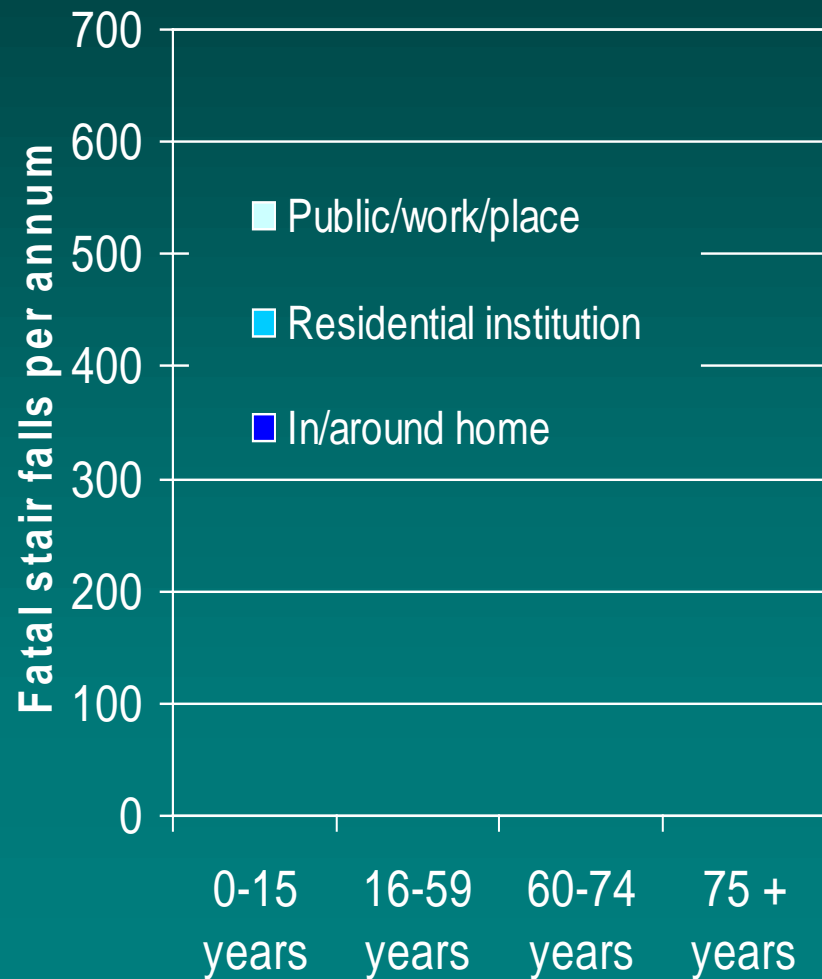
6. Annual fatal falls 97-99 by type and place of fall - before and after reallocating missing data

Place of fatal fall	Fall on stairs	Fall on level	Fall between levels	Falls in bath/shower	Other fatal falls 1	Fall-origin NK
Home	471.7	44.0	43.0	51.7	79.0	616.7
Resid. Institution	27.7	13.0	6.3	3.3	45.3	255.7
Public/work/place	43.7	32.3	40.0	129.7	58.7	203.3
Place NK	0.0	0.0	0.3	0.0	0.0	7.7
All Residential	998.6	131.6	105.7	110.5	317.6	Pro-rata

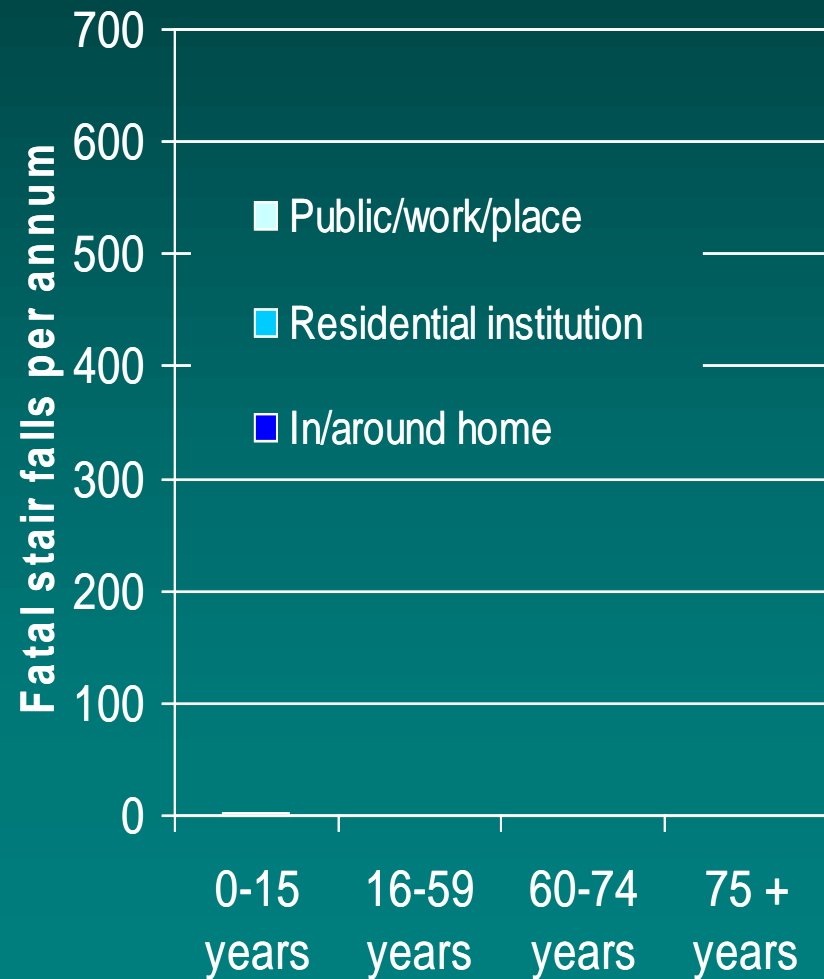
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7. Annual number and rate of fatal falls on stairs/step by age of victim and location

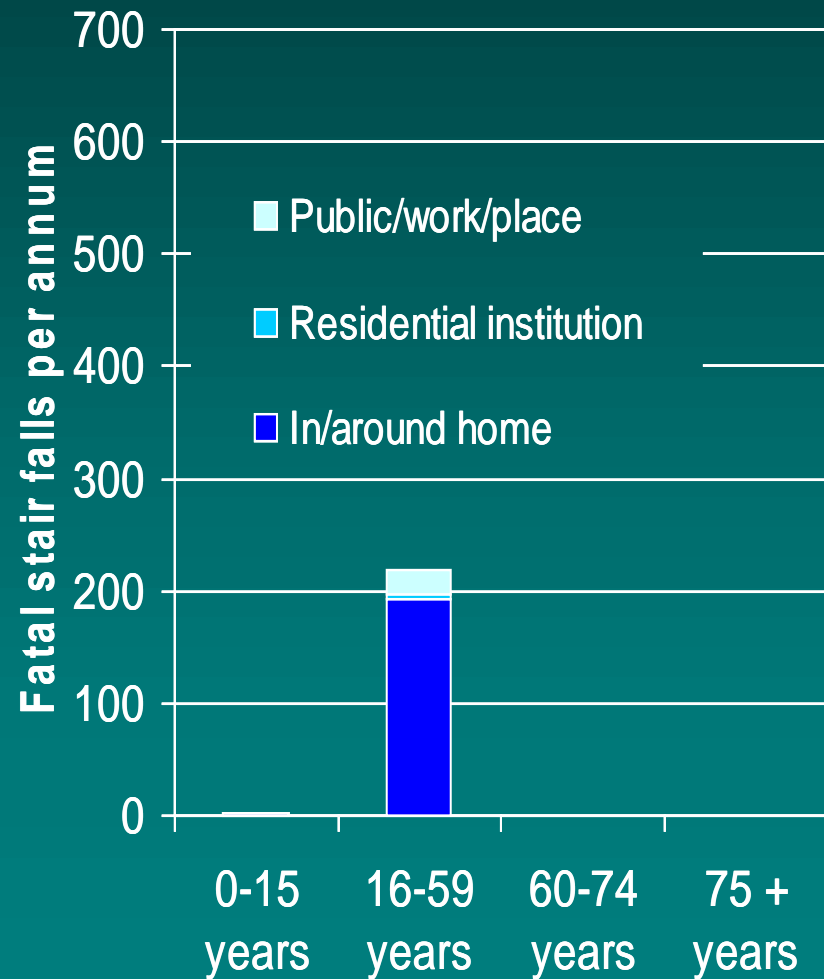
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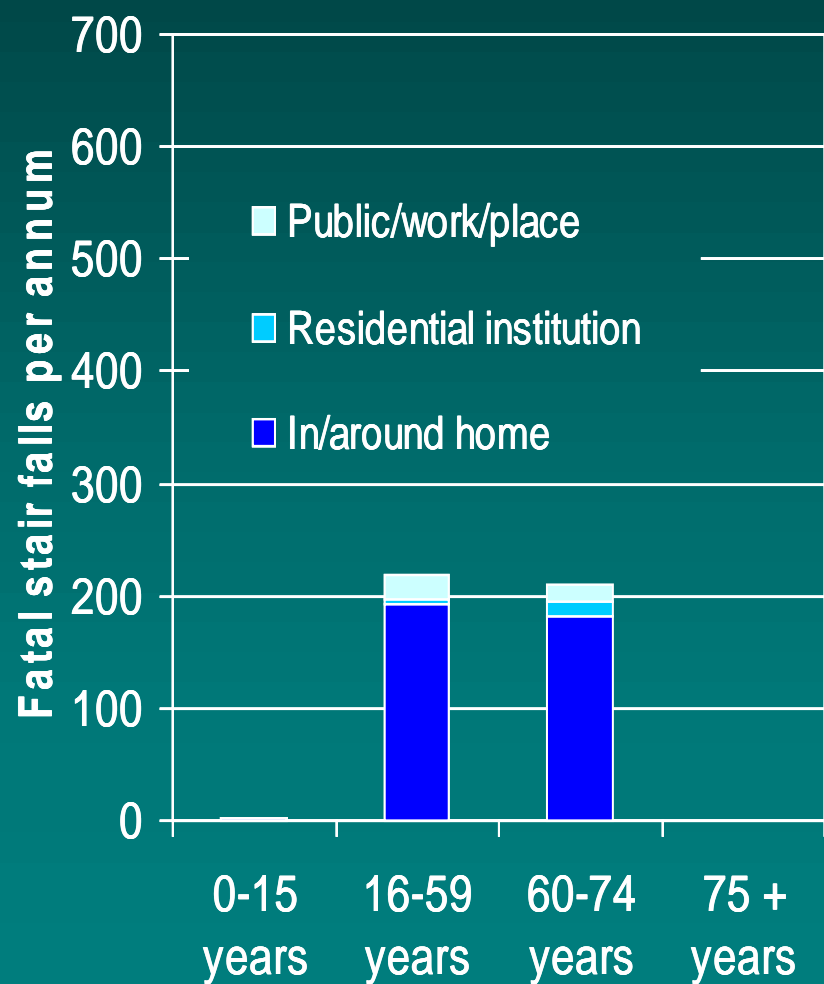
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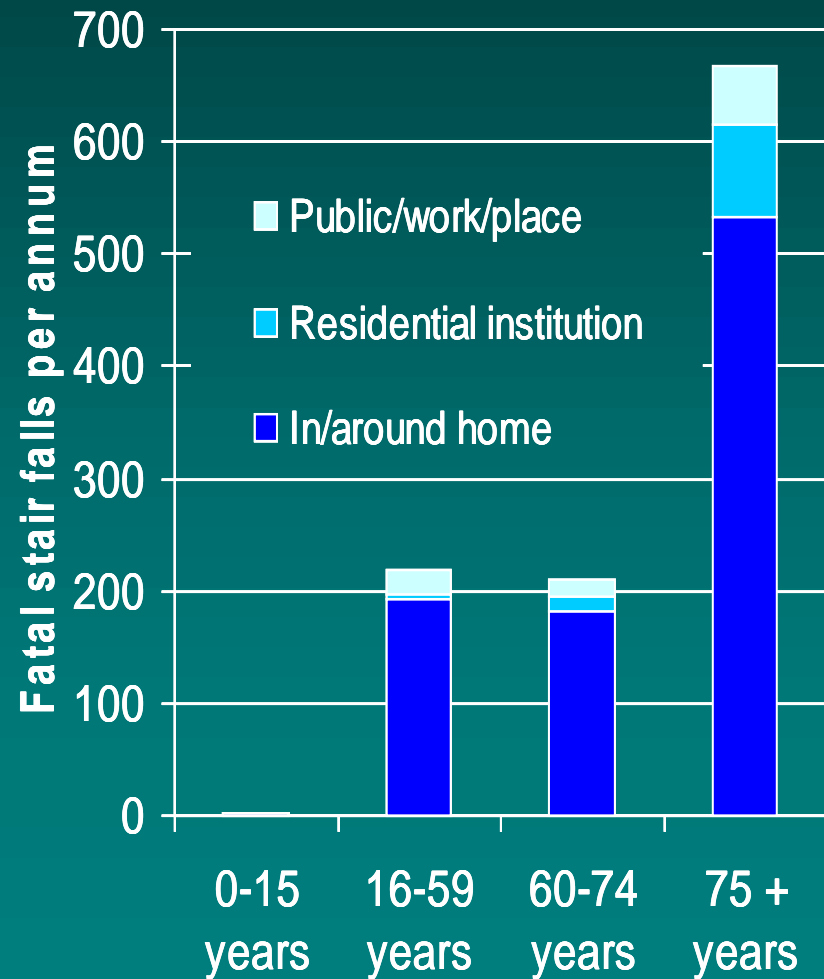
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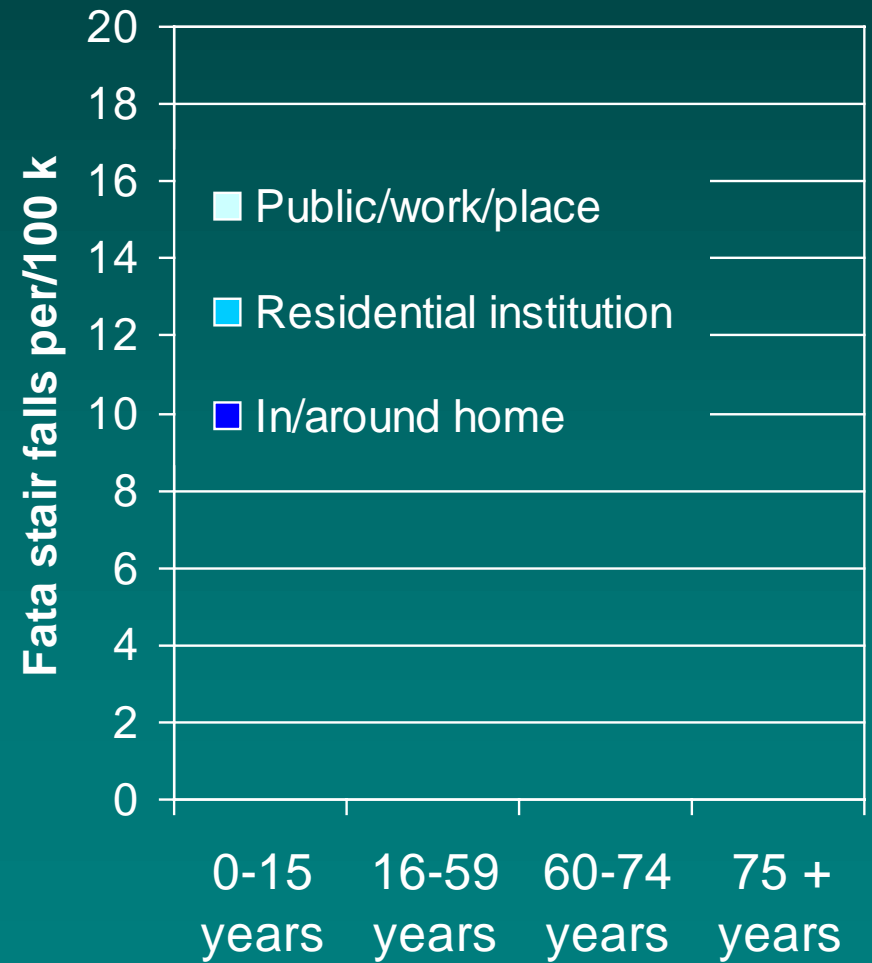
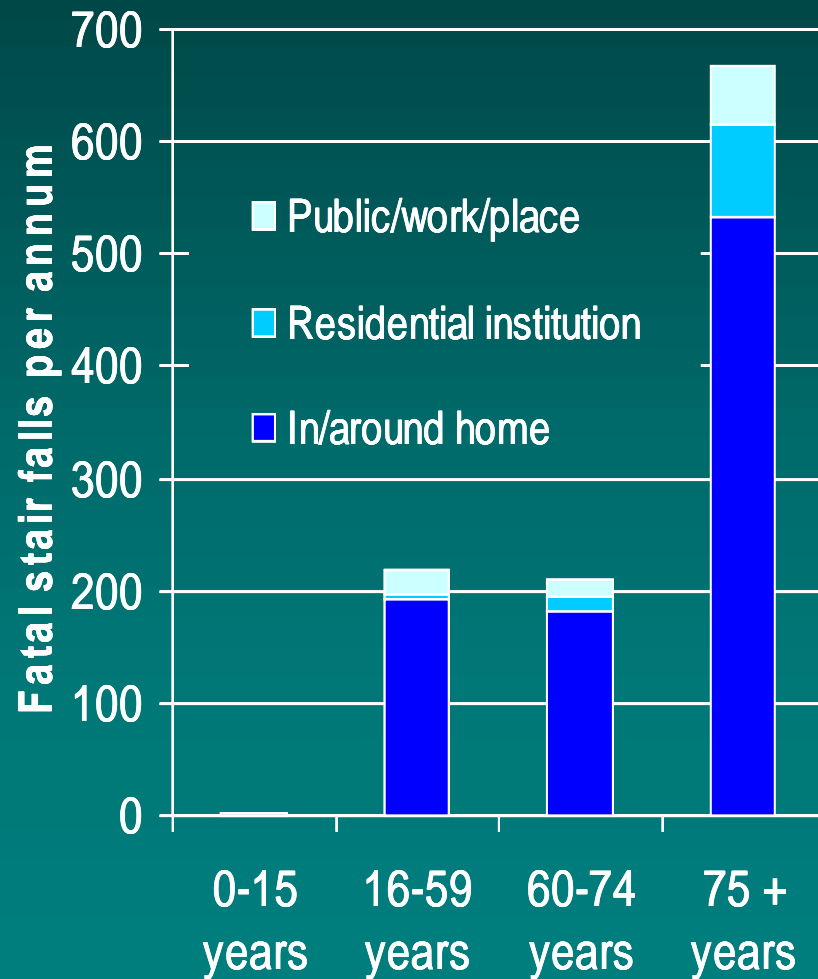
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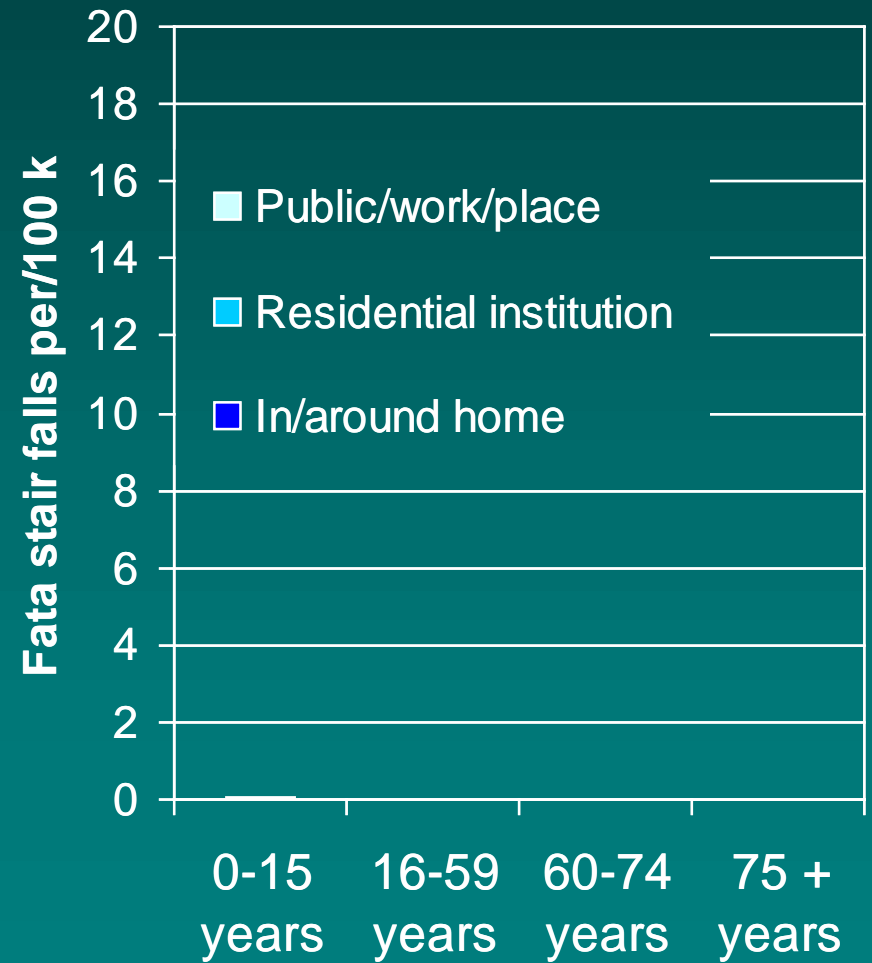
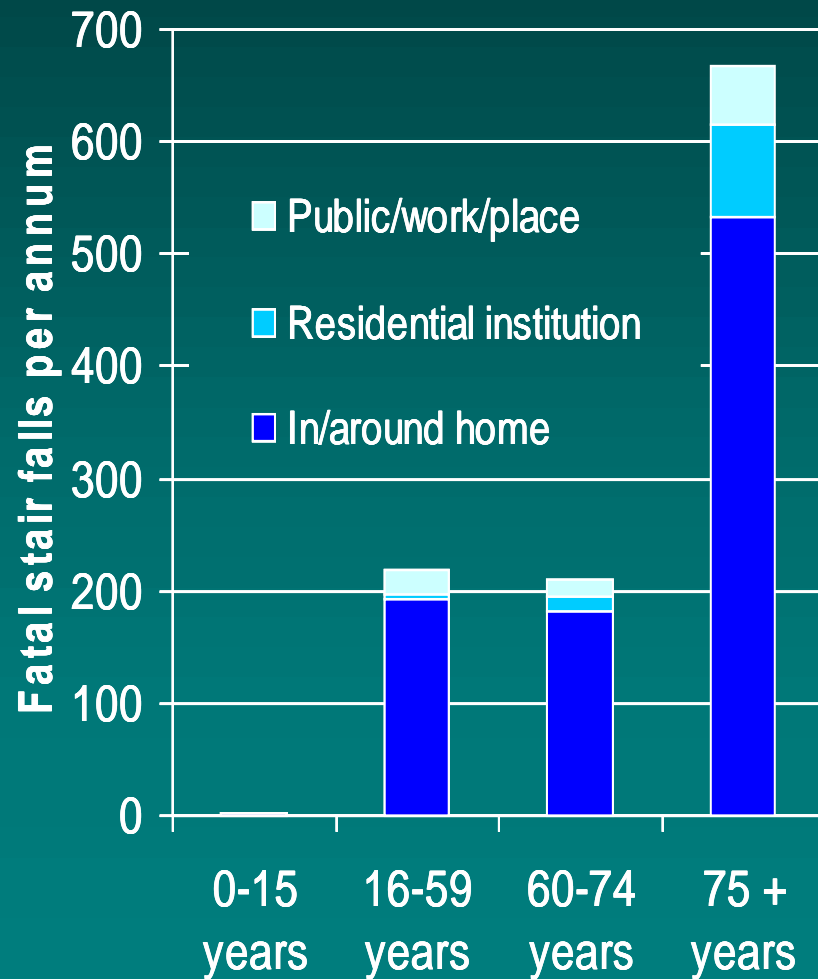
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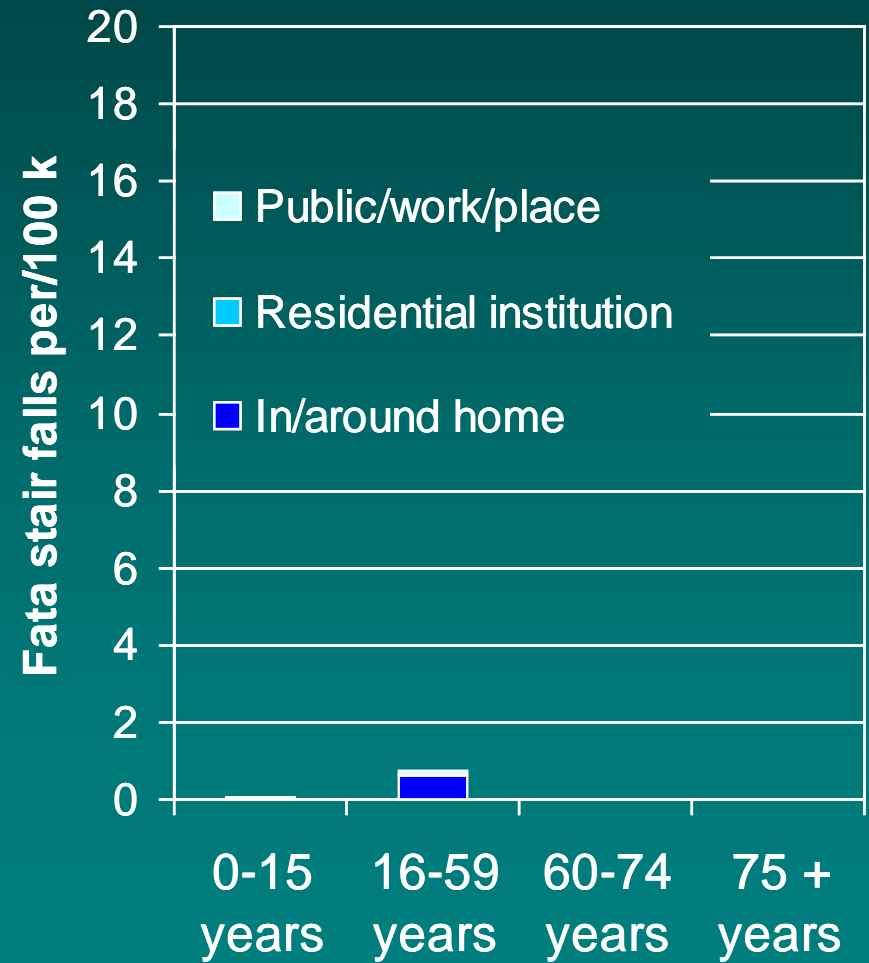
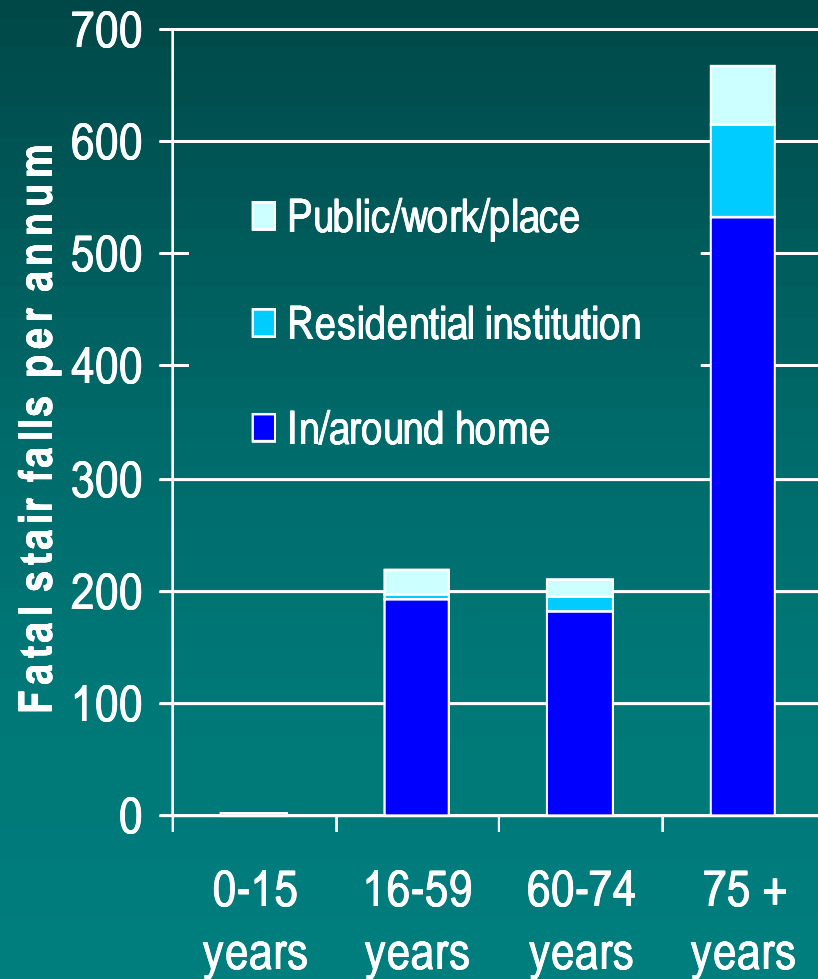
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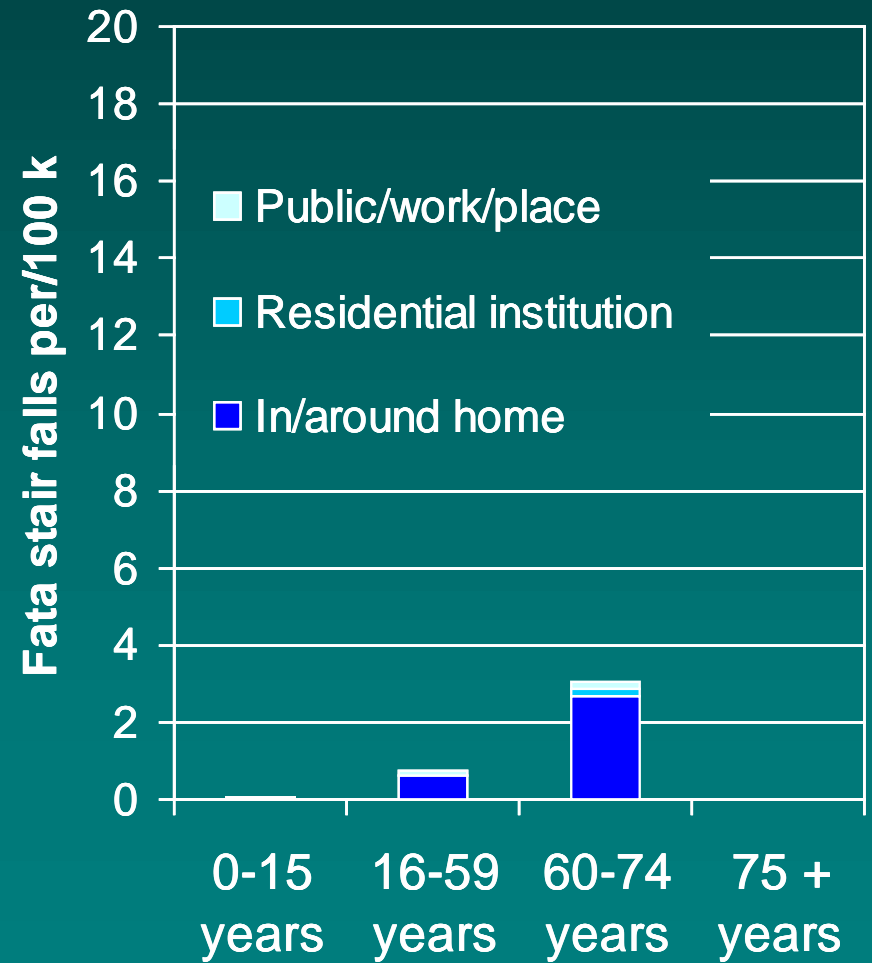
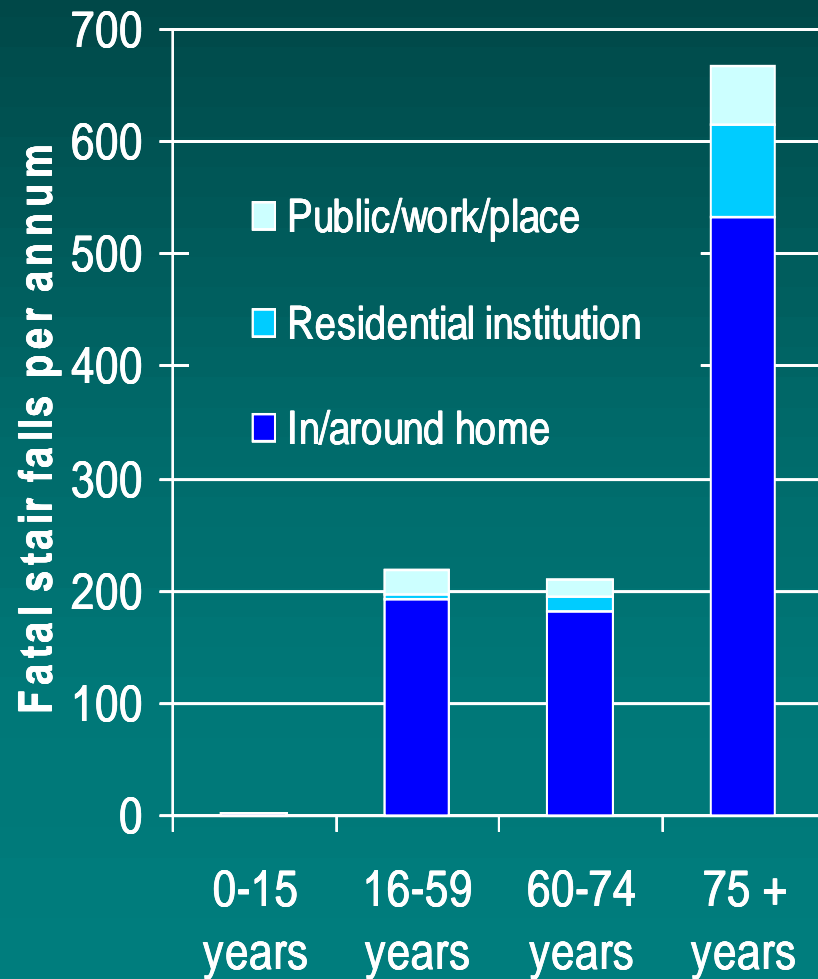
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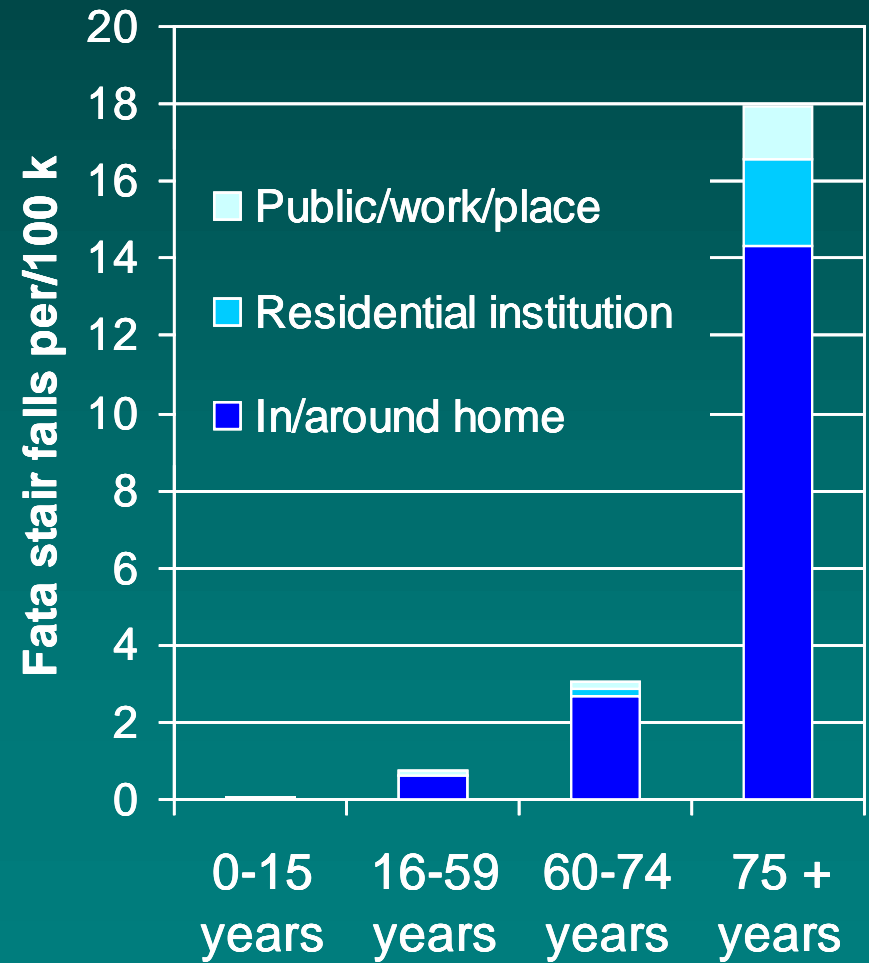
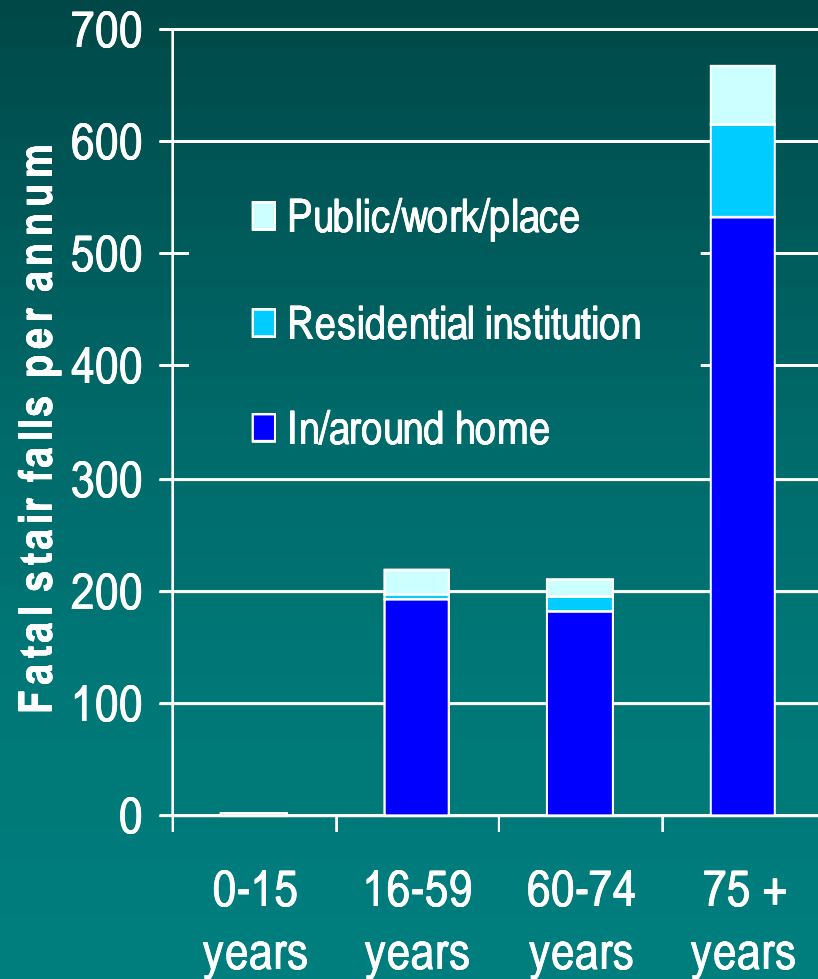
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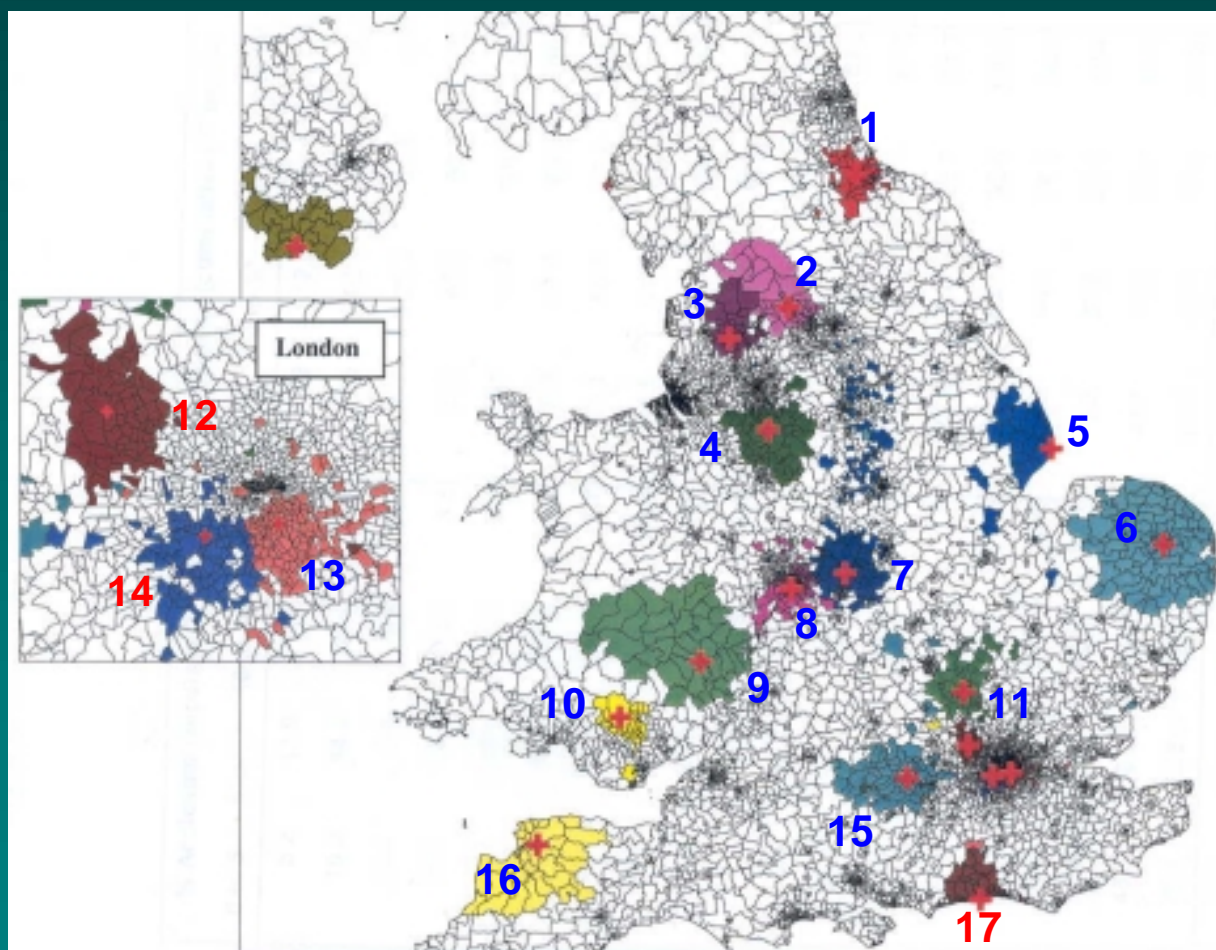
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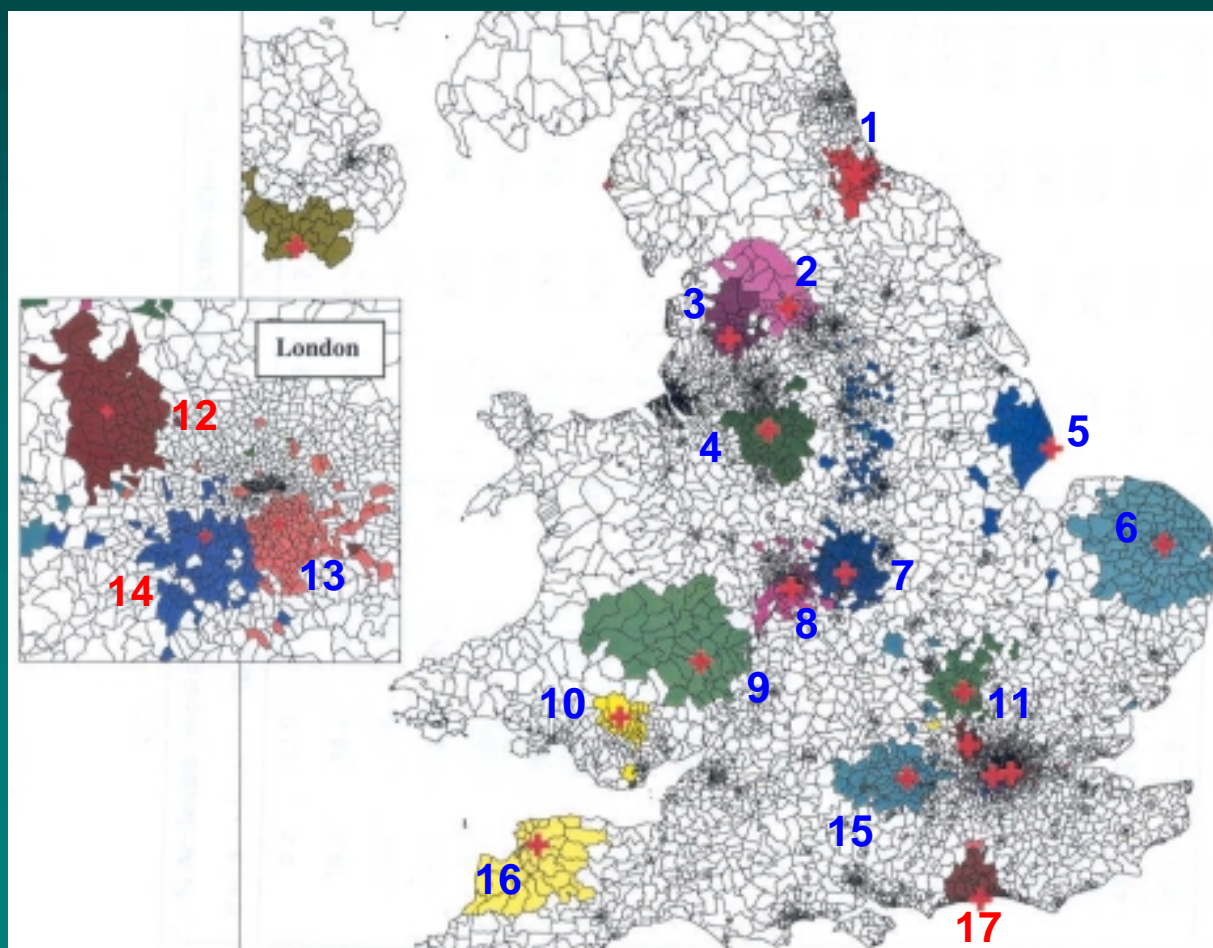
8. HASS hospital catchment areas in England & Wales (Listed North to South, excl. St Helier, Sutton)



Source: Map - GMAP Ltd

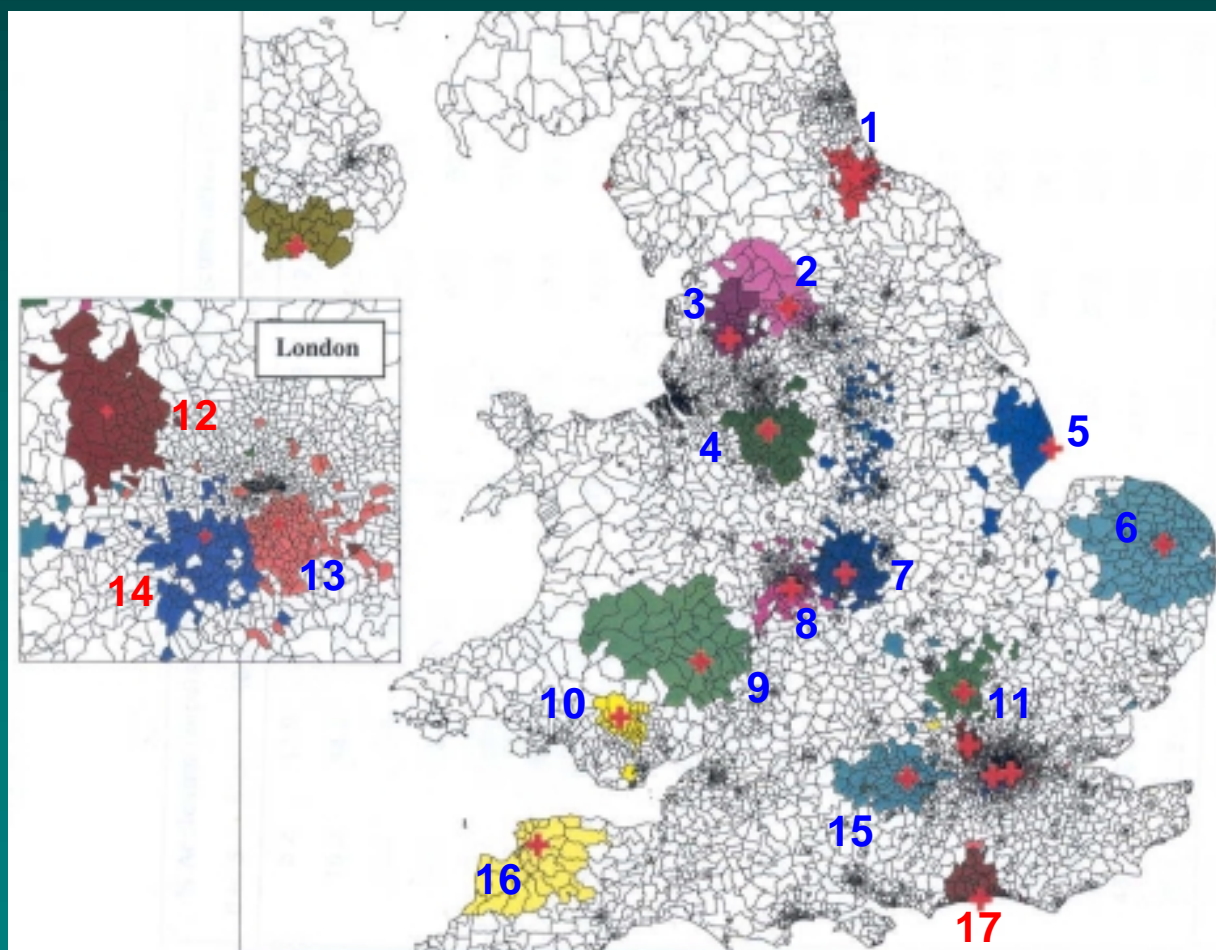
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1 North Tees, Stockton



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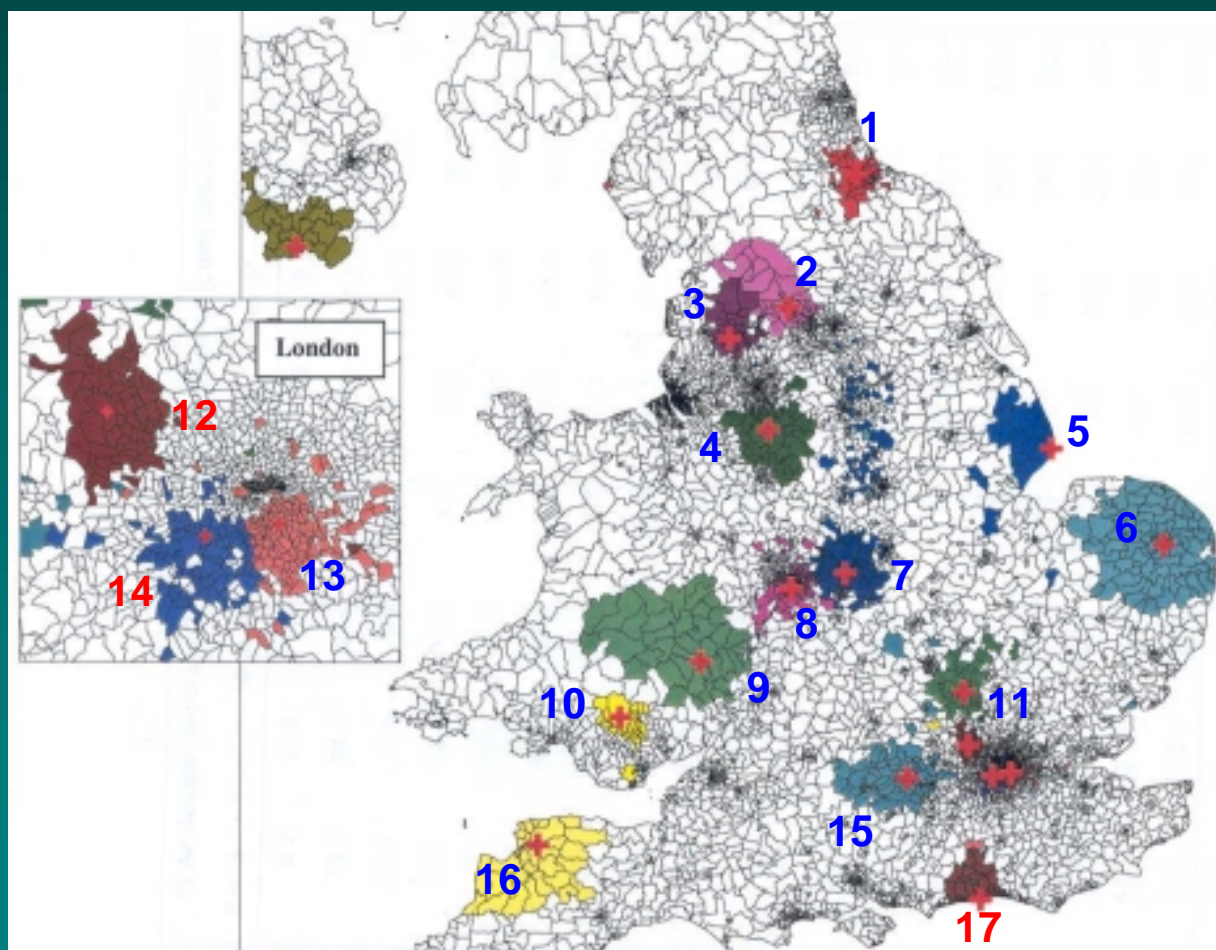
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- 1 North Tees, Stockton
- 2 Airedale, Keighley

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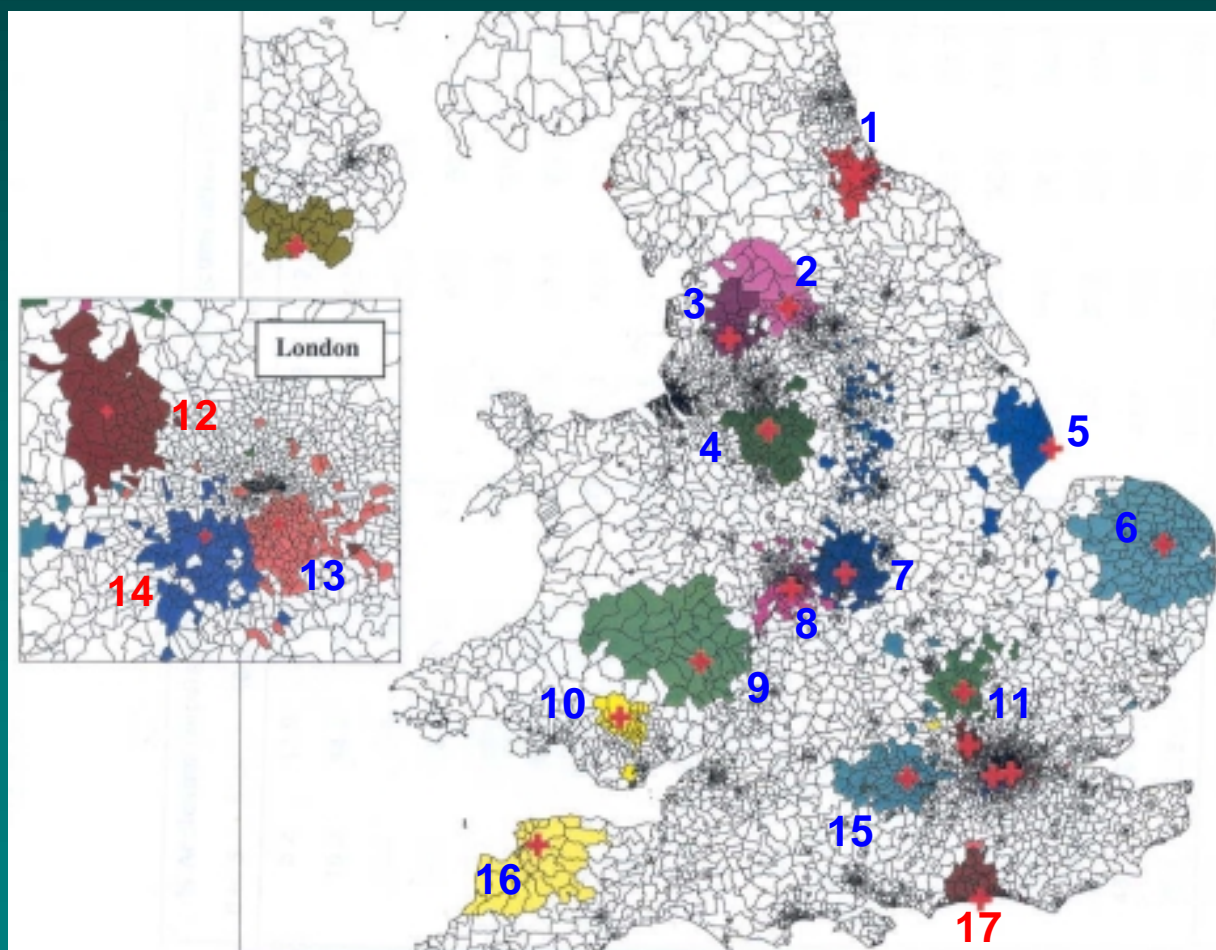
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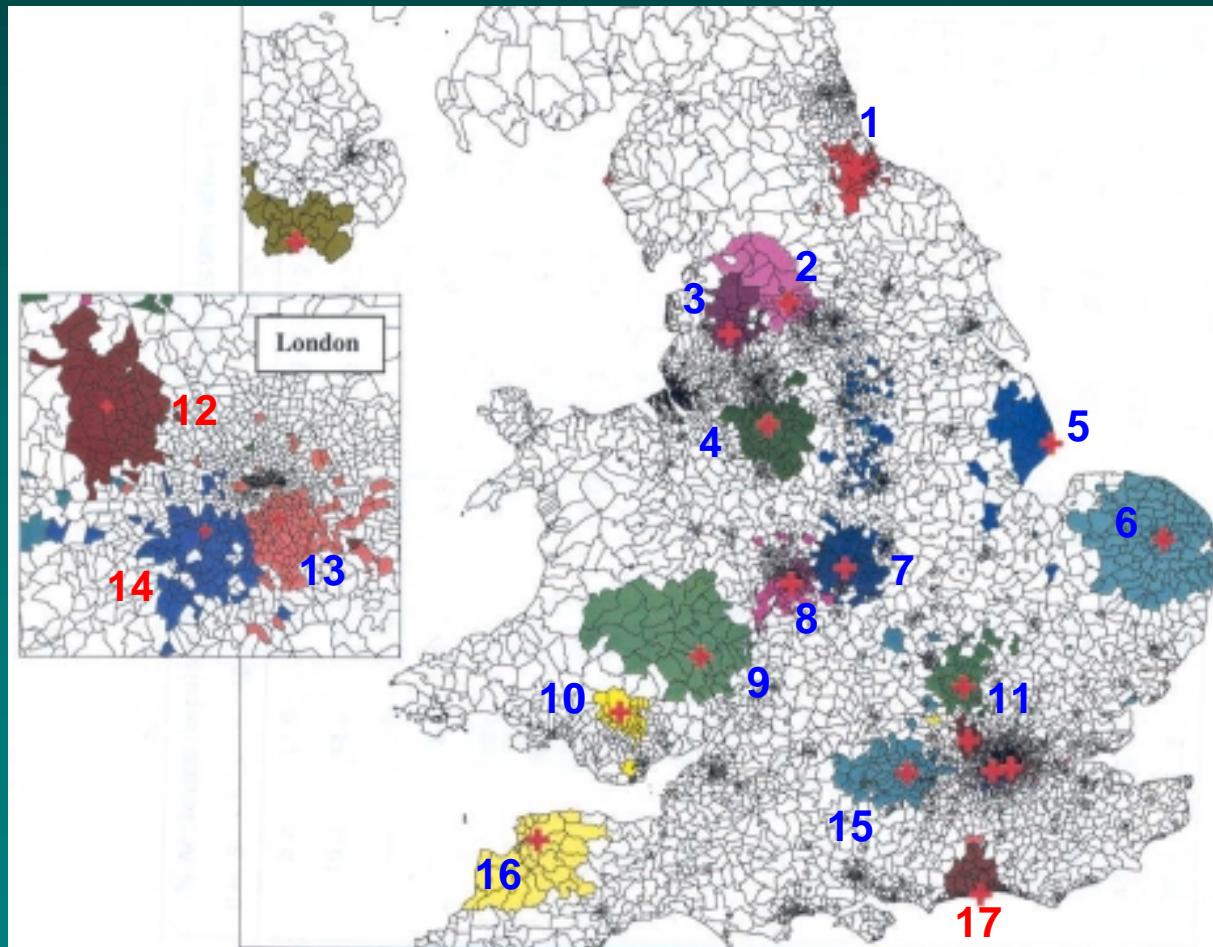
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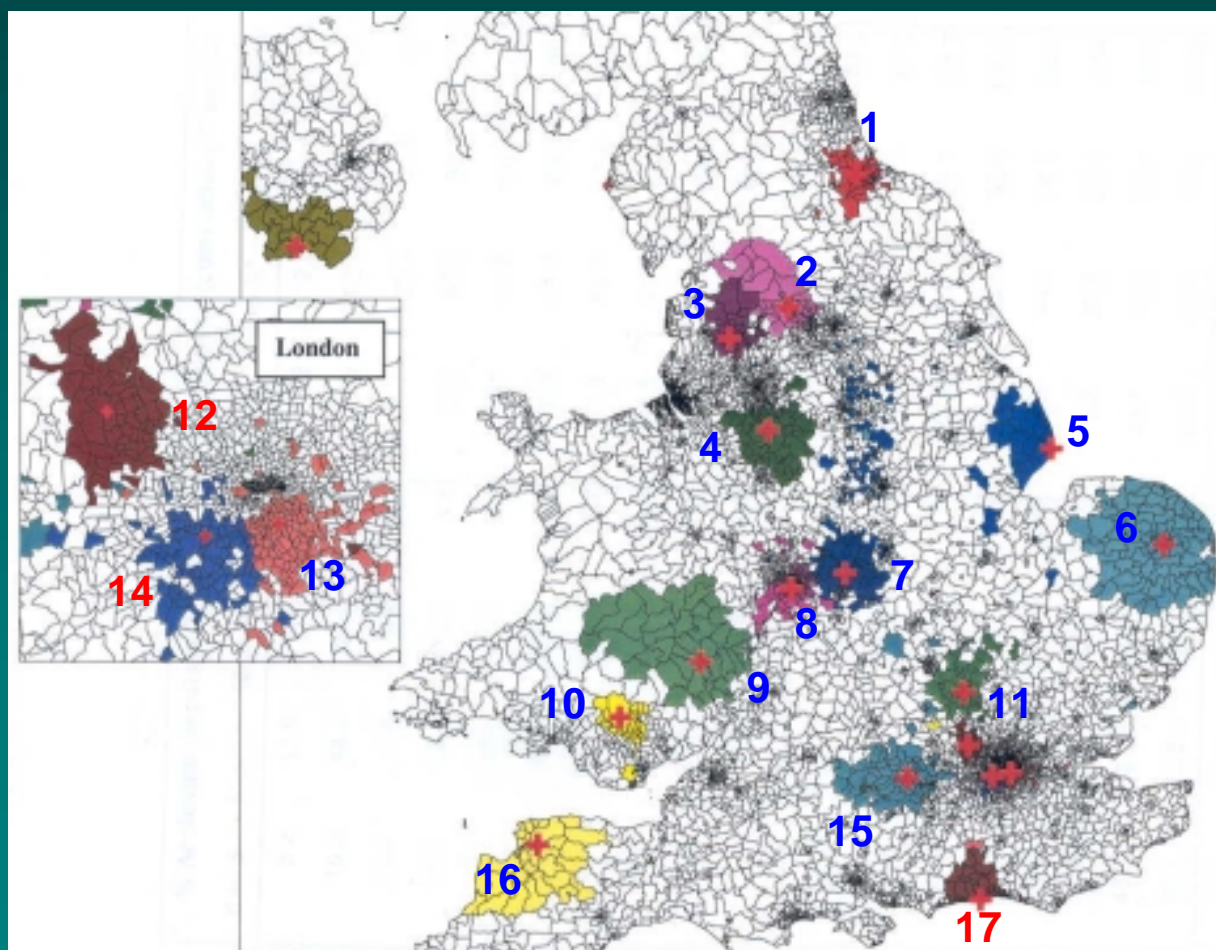
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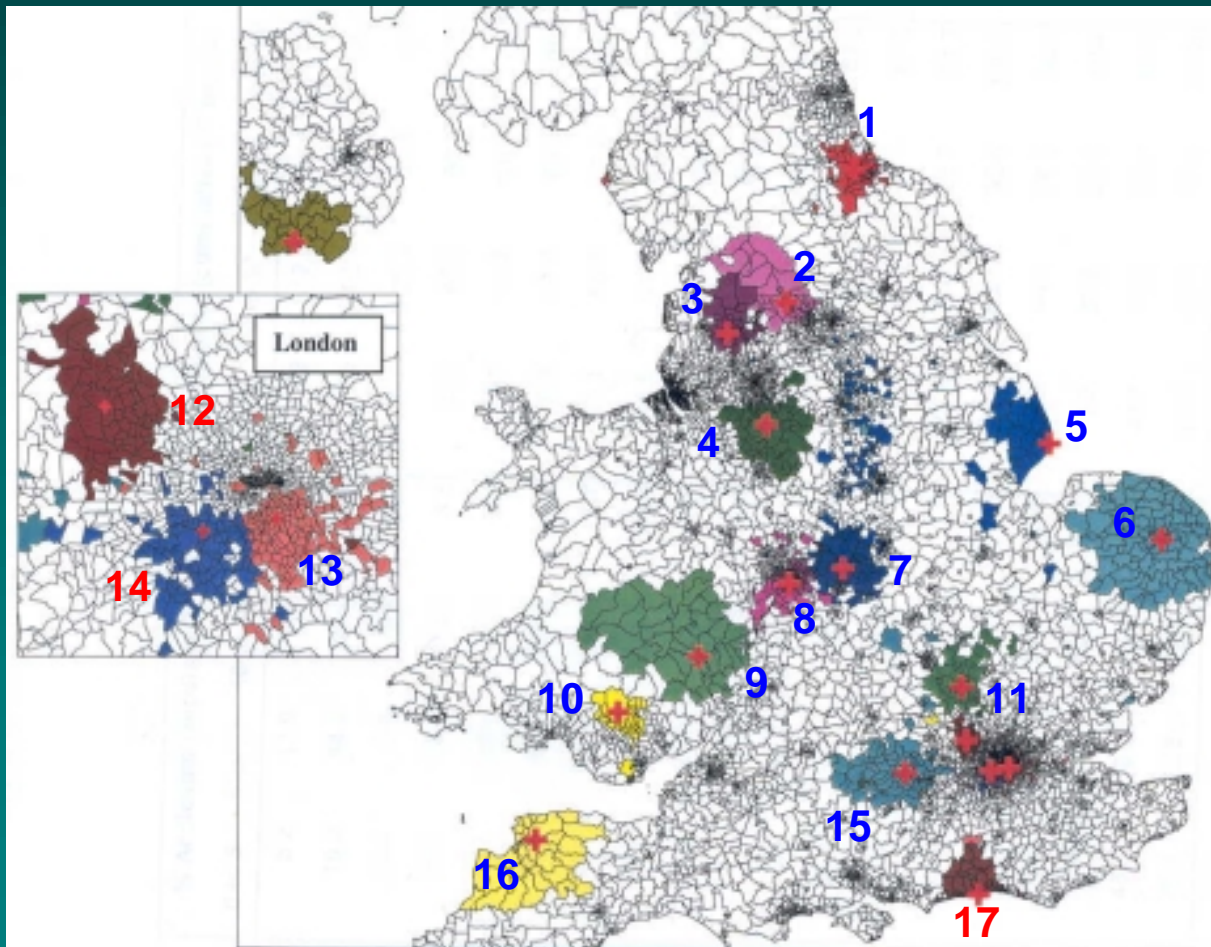
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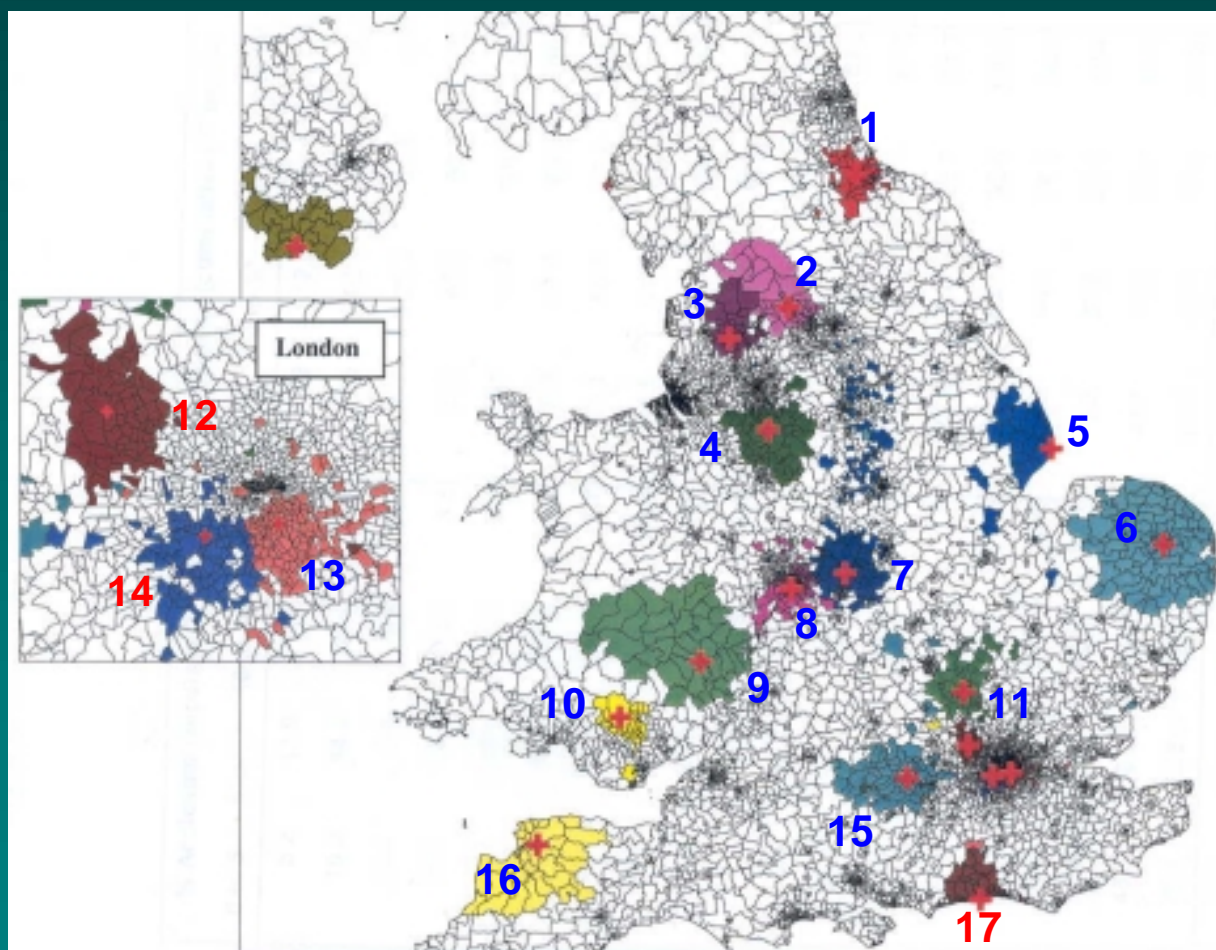
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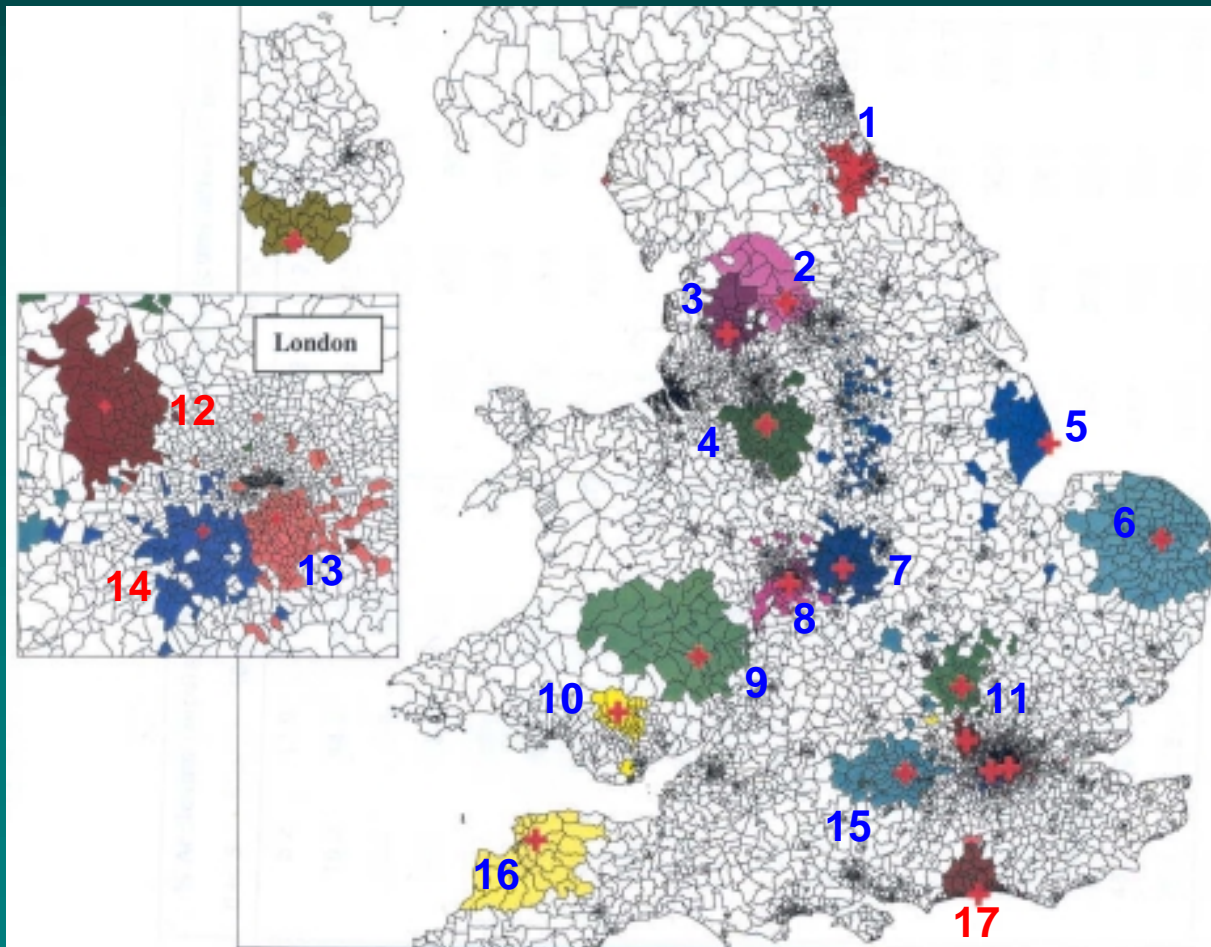
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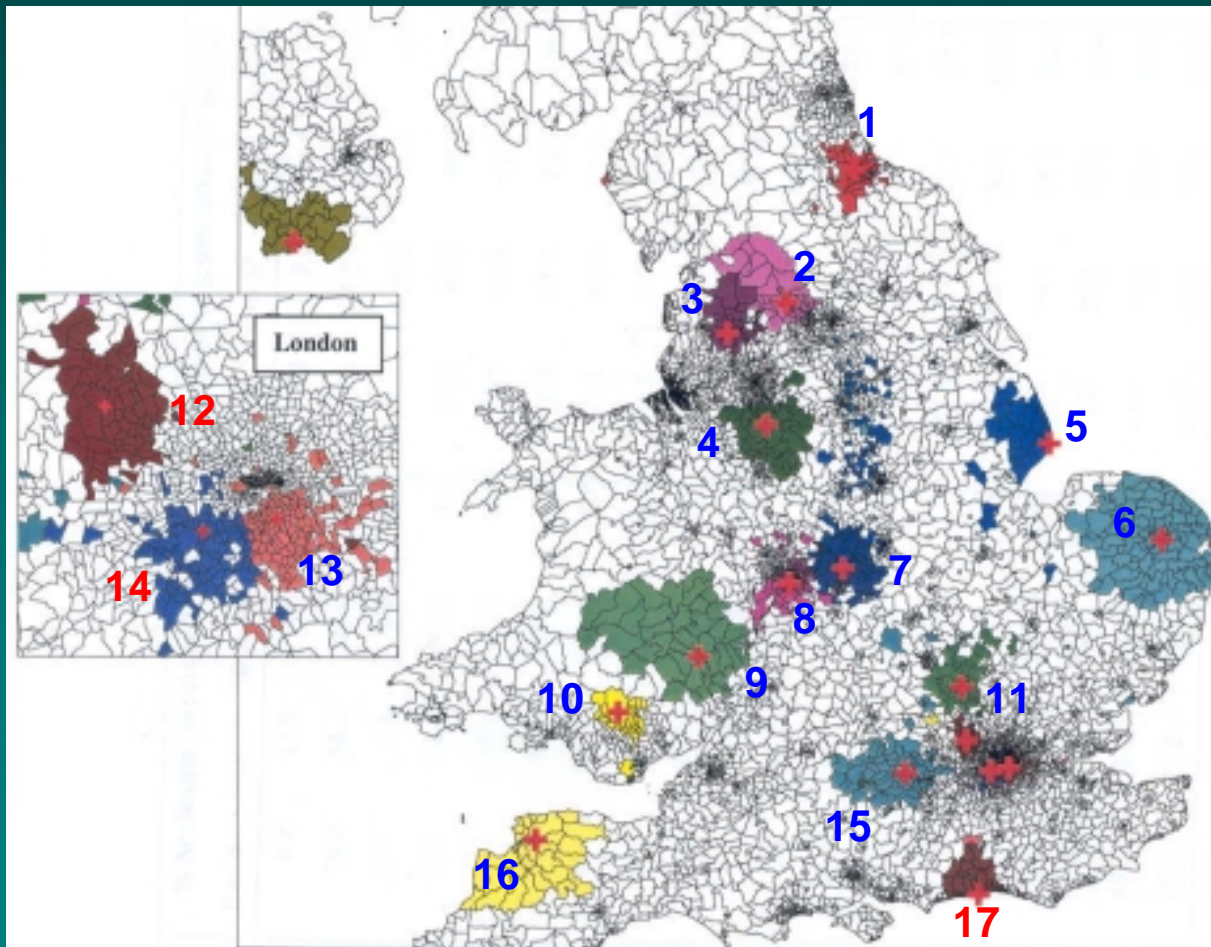
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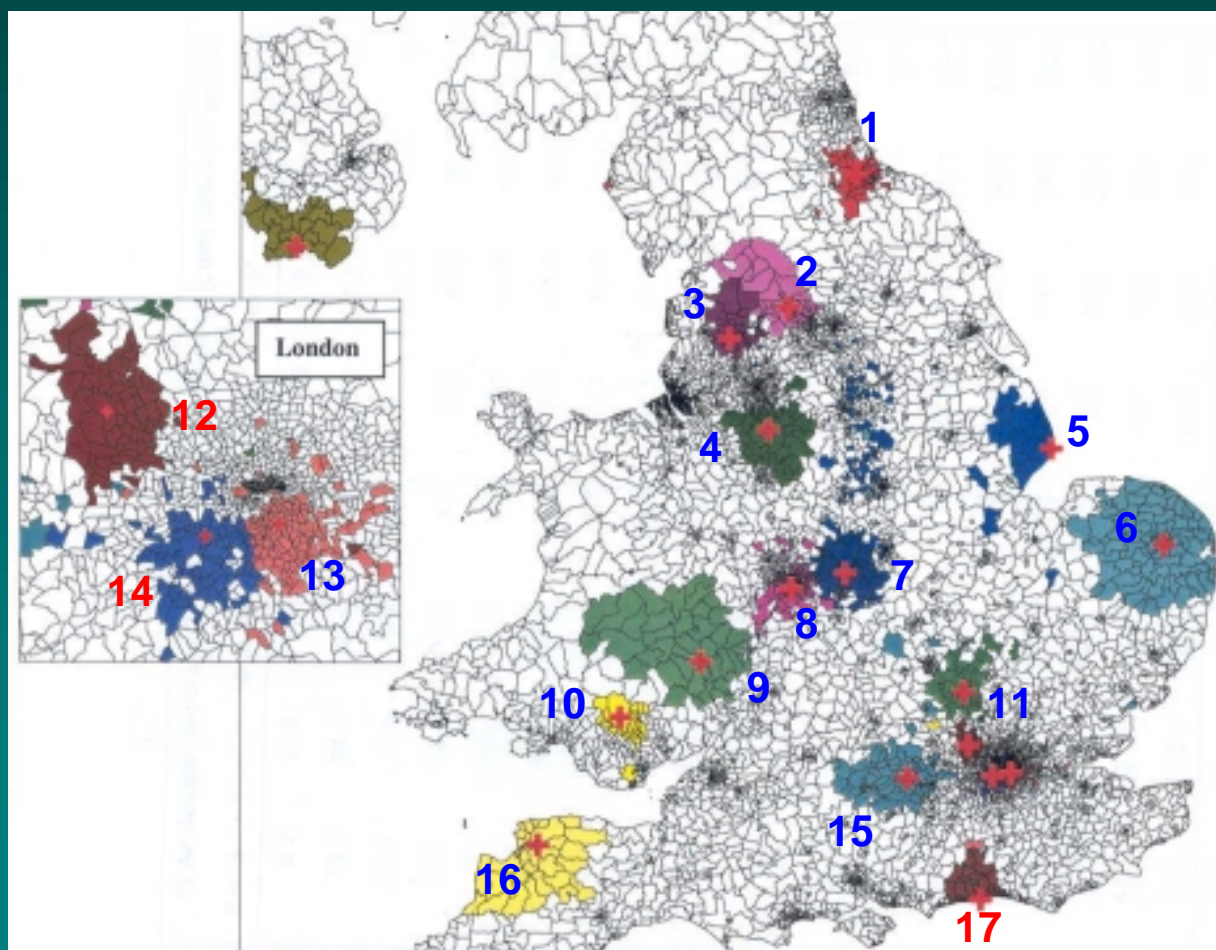
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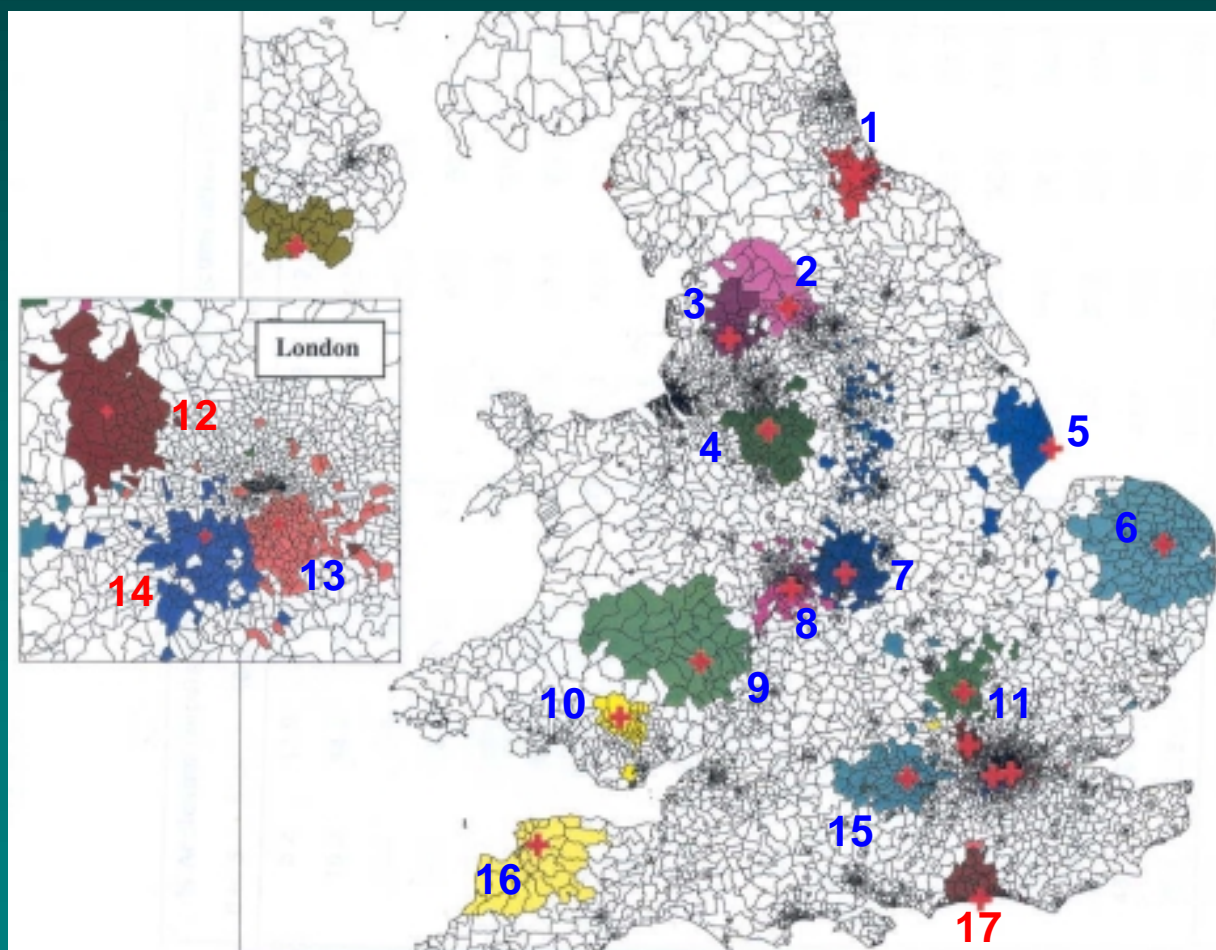
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- 11 Luton and Dunstable

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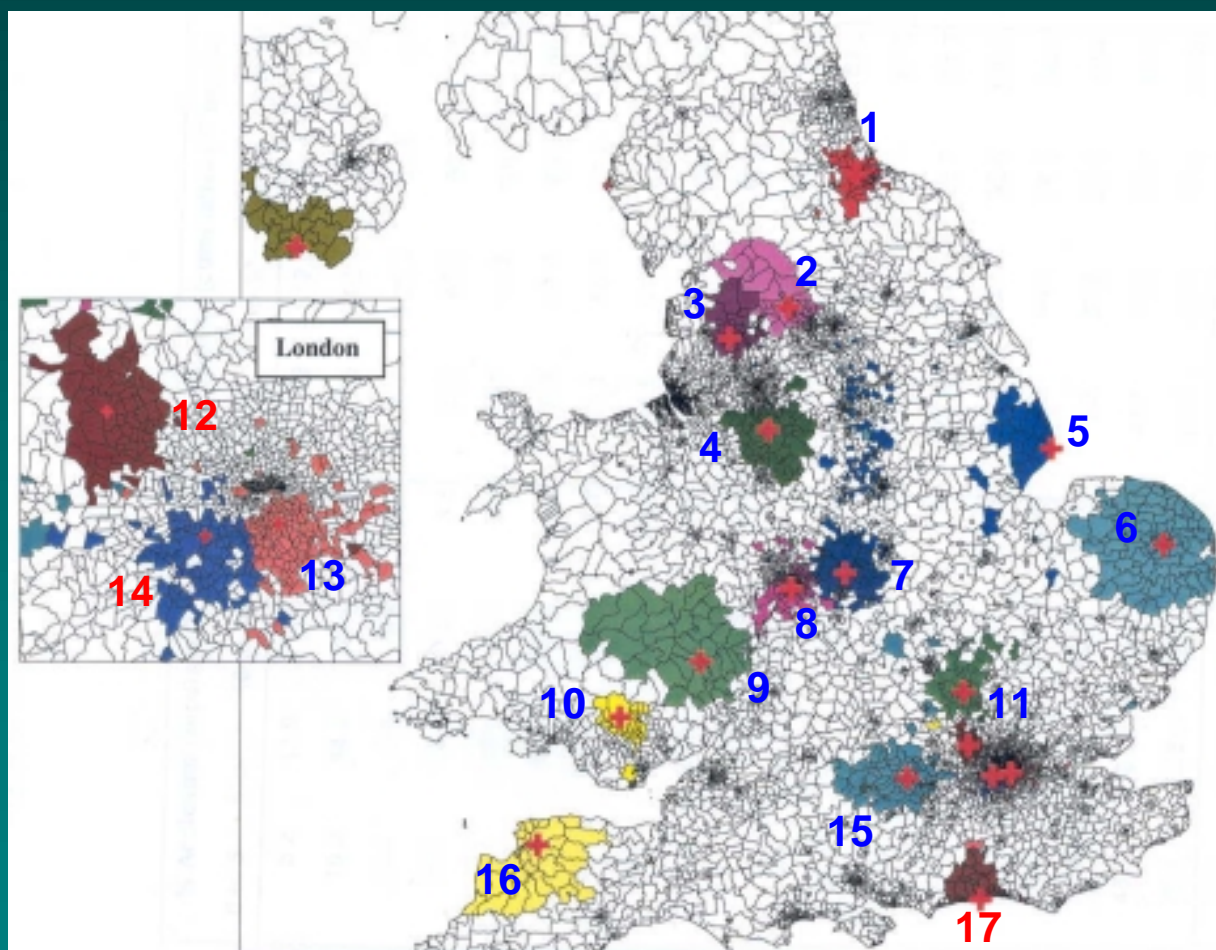
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- 9 Hereford County
- 10 Prince Charles, Merthyr
- 11 Luton and Dunstable
- 12 Mt Vernon Hillingdon (to 98)

Source: Map - GMAP Ltd

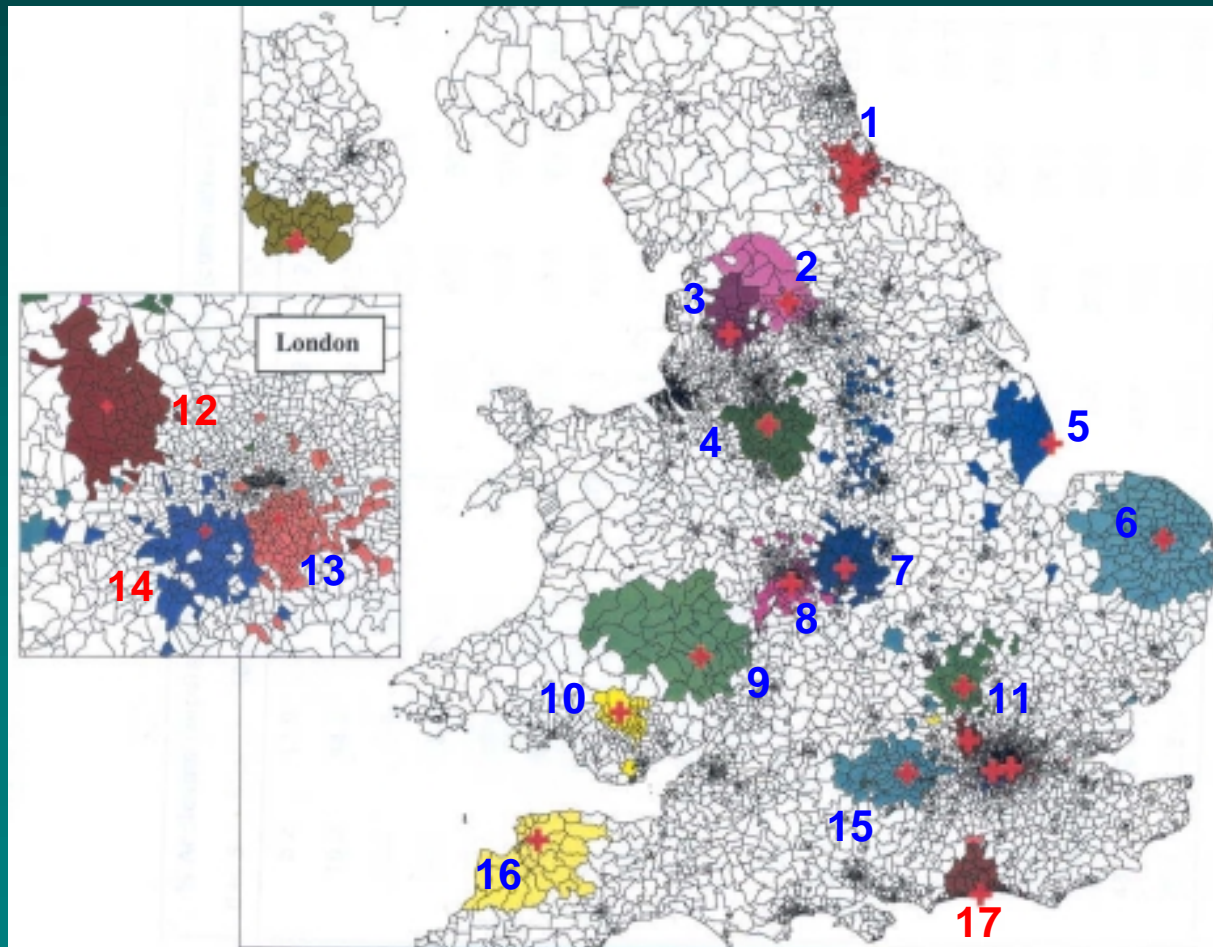
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- 13 Kings College, London SE5

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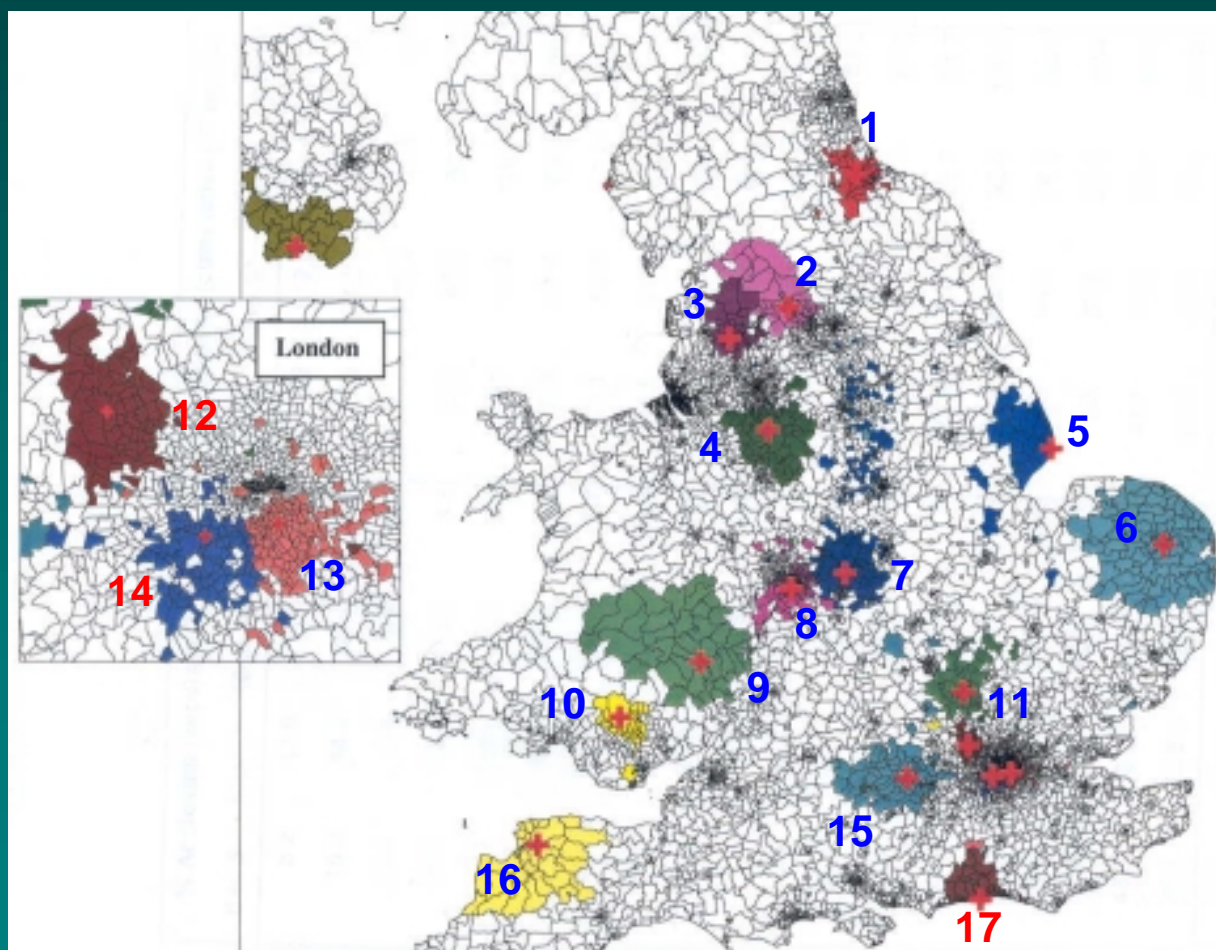
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- 14 Queen Marys, SW15 (to 98)
- 15
- 16
- 17

Source: Map - GMAP Ltd

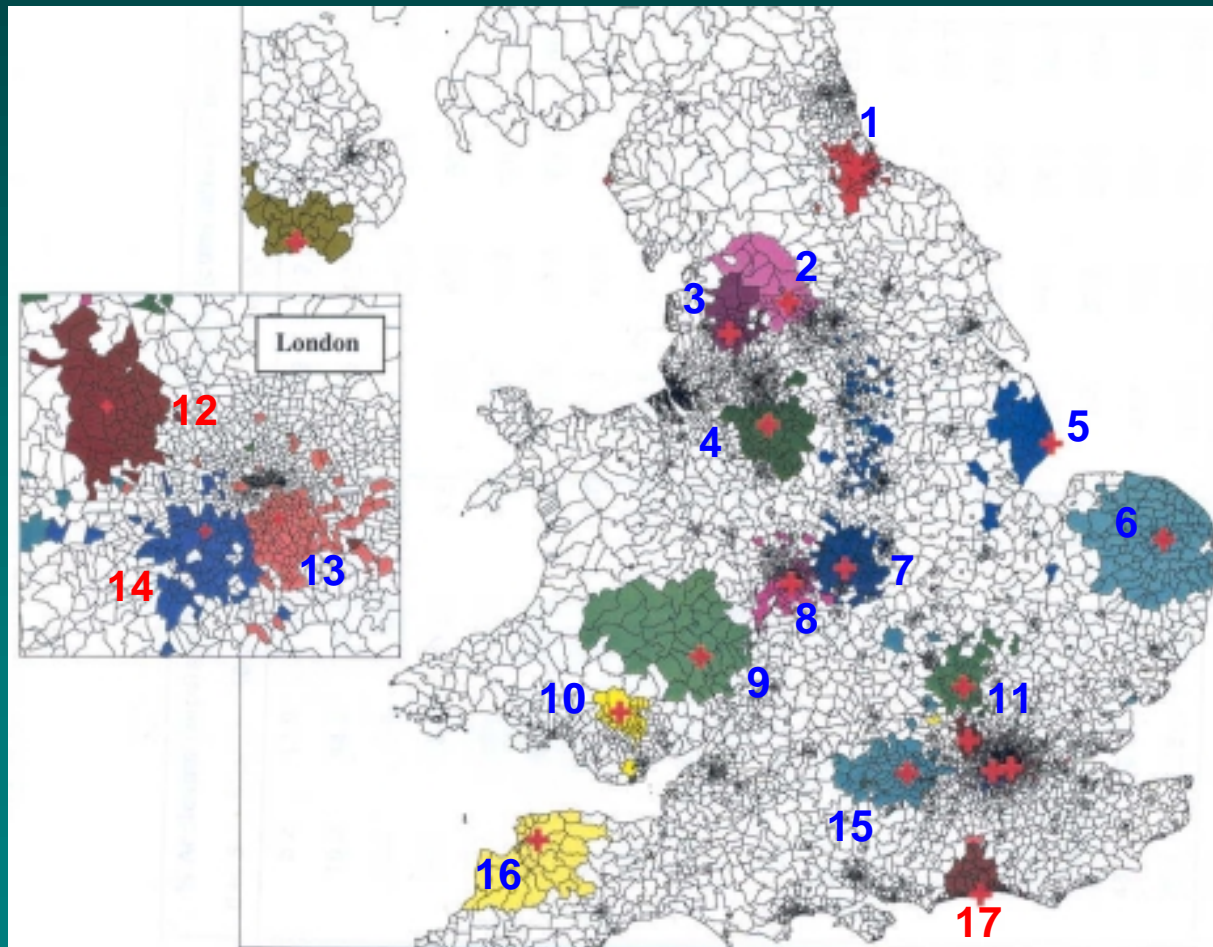
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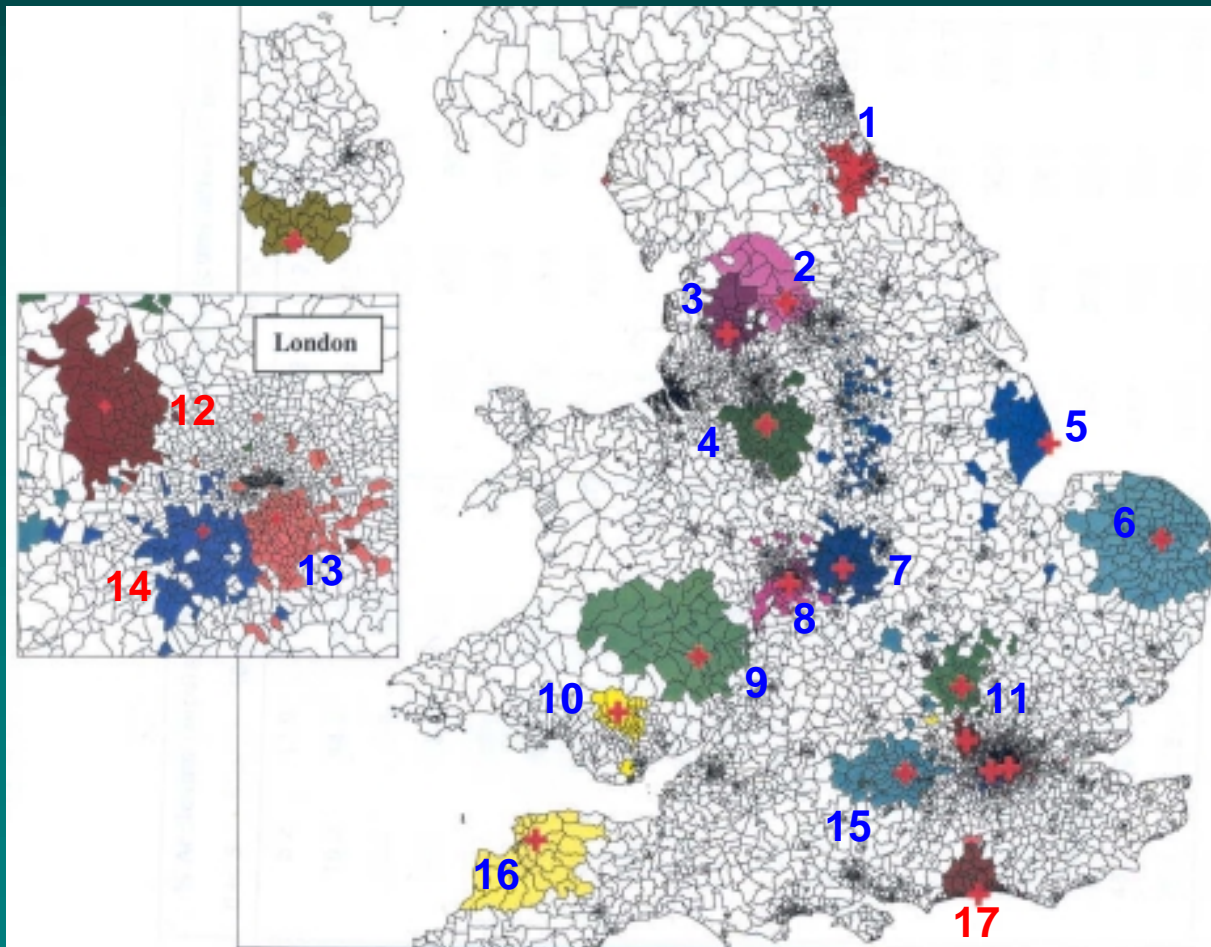
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Source: Map - GMAP Ltd

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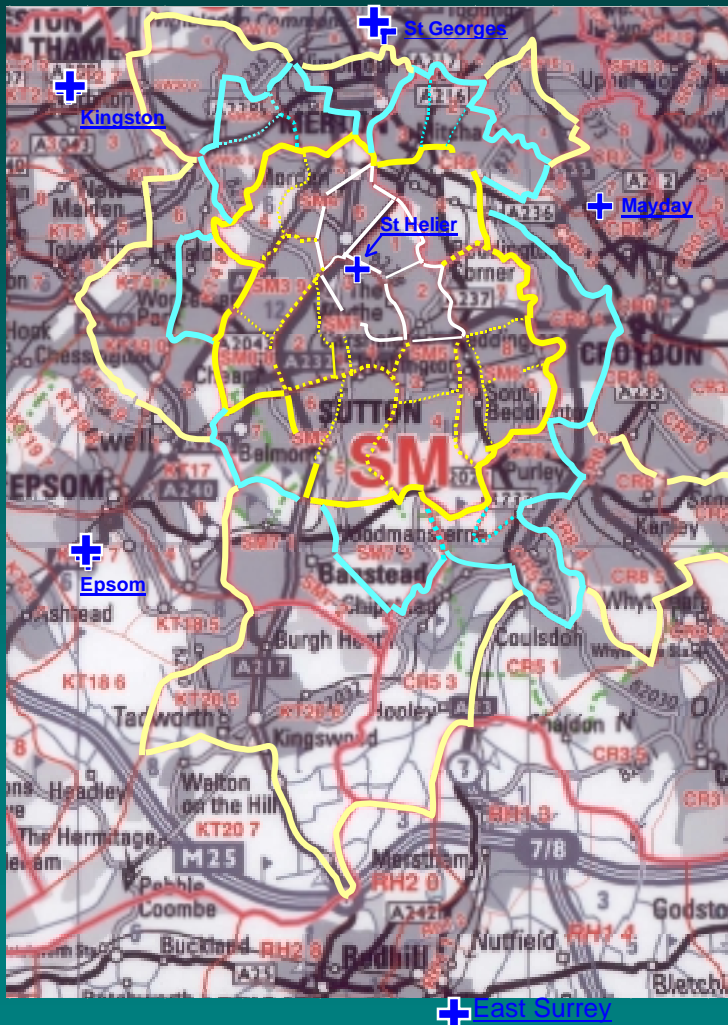
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- 14 Queen Marys, SW15 (to 98)
- 15 Royal Berks, Reading
- 16 North Devon, Barnstable
- 17 Worthing Hospital (1998 on)

9. Accident rates in core, intermediate & outer catchment areas of St Helier hospital, Sutton

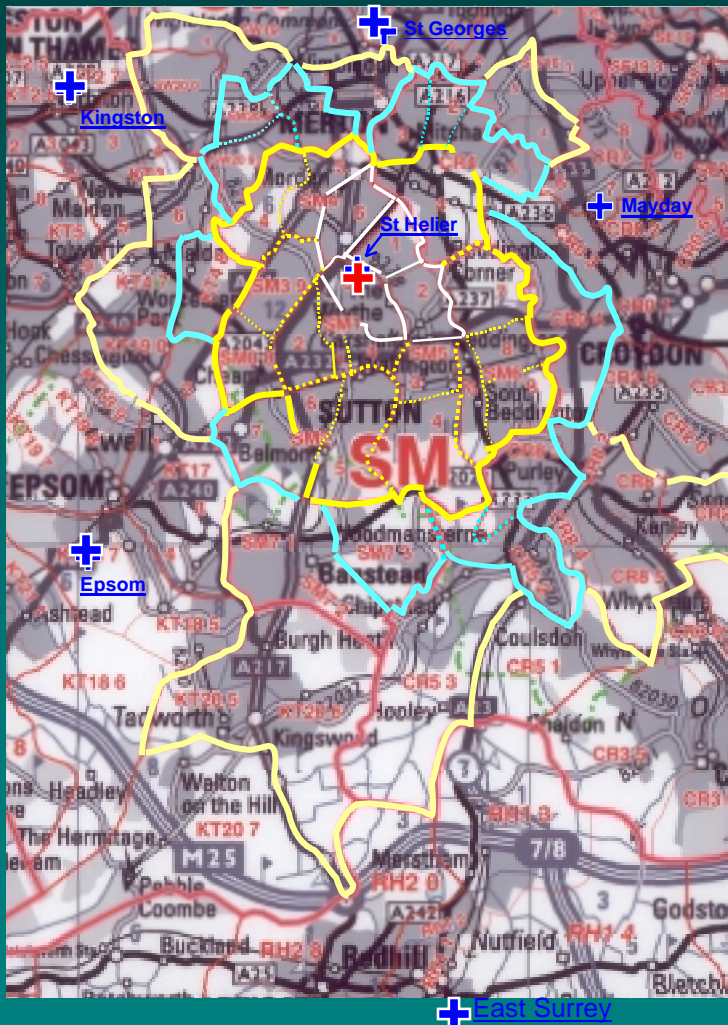


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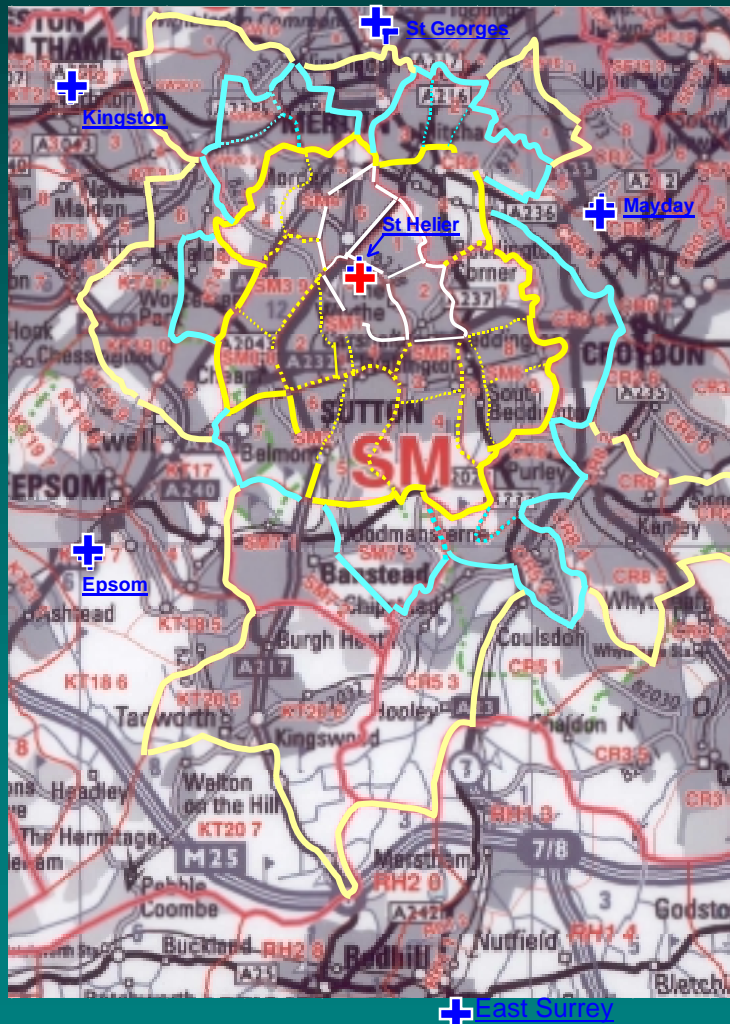
Rate > 20 5 - 15 1- 5 per 1000

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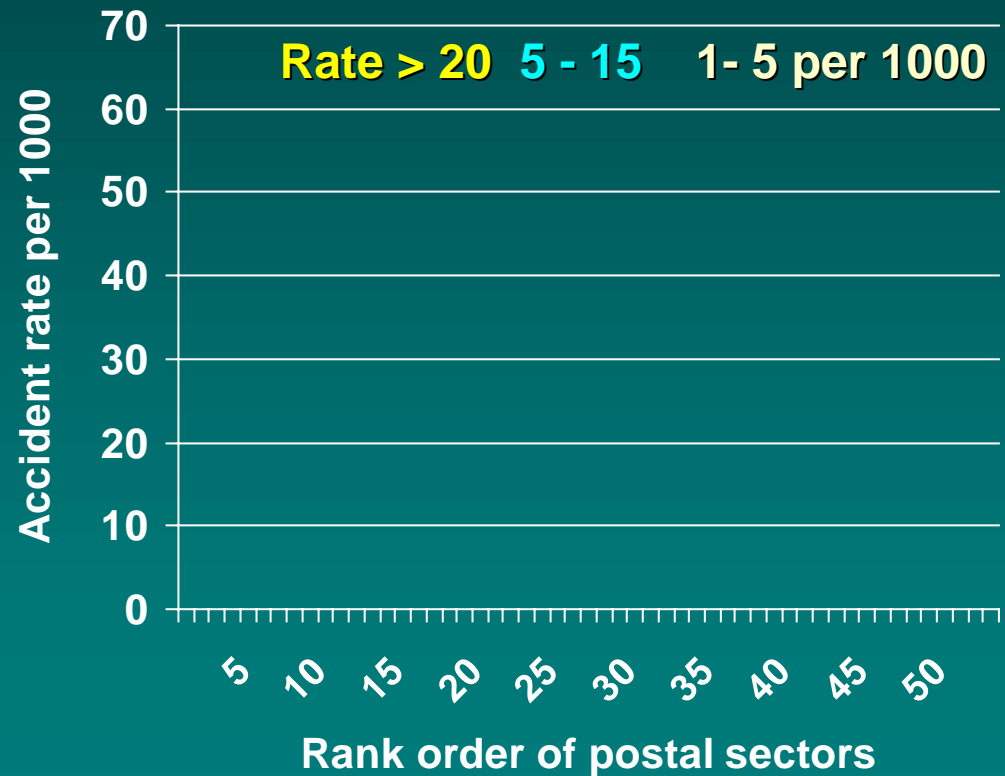
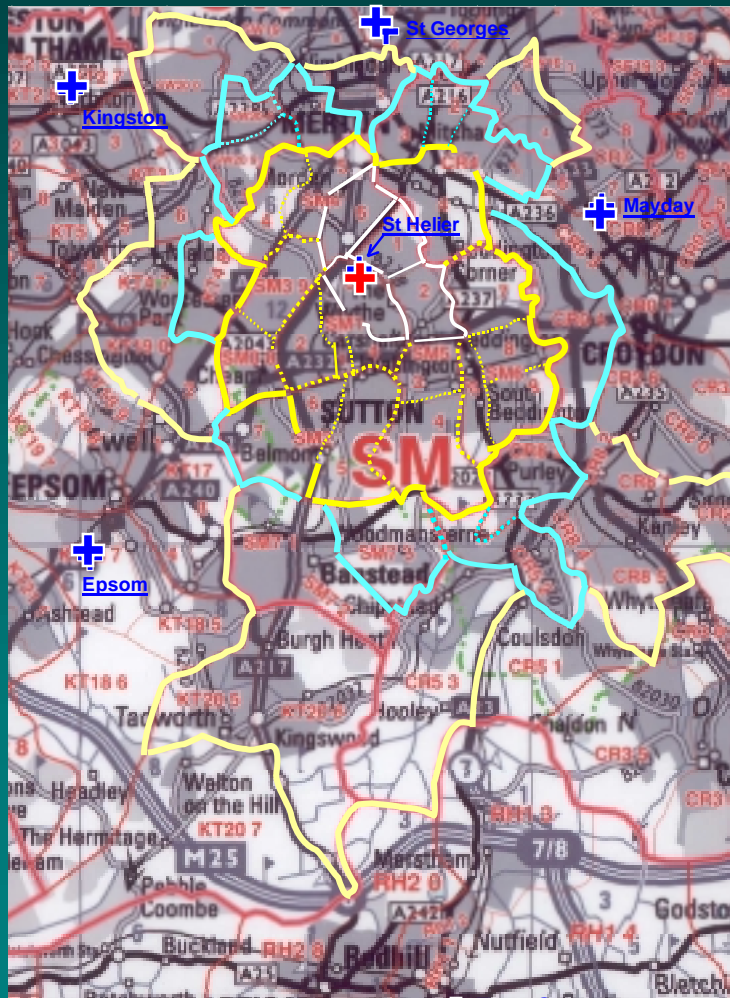
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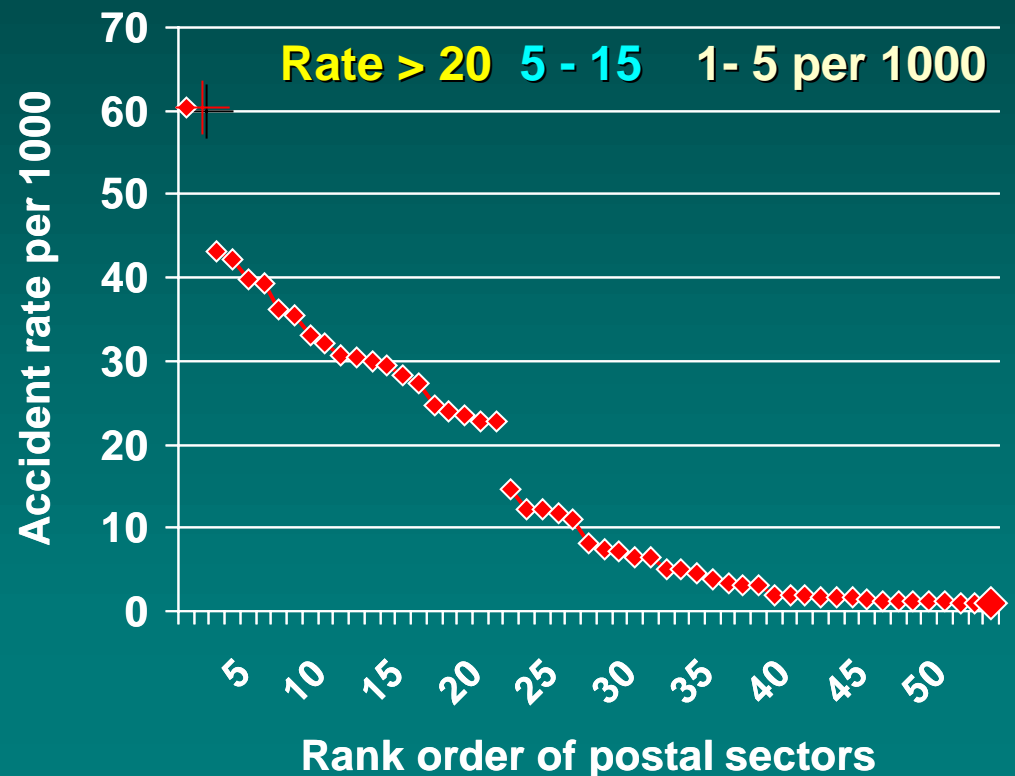


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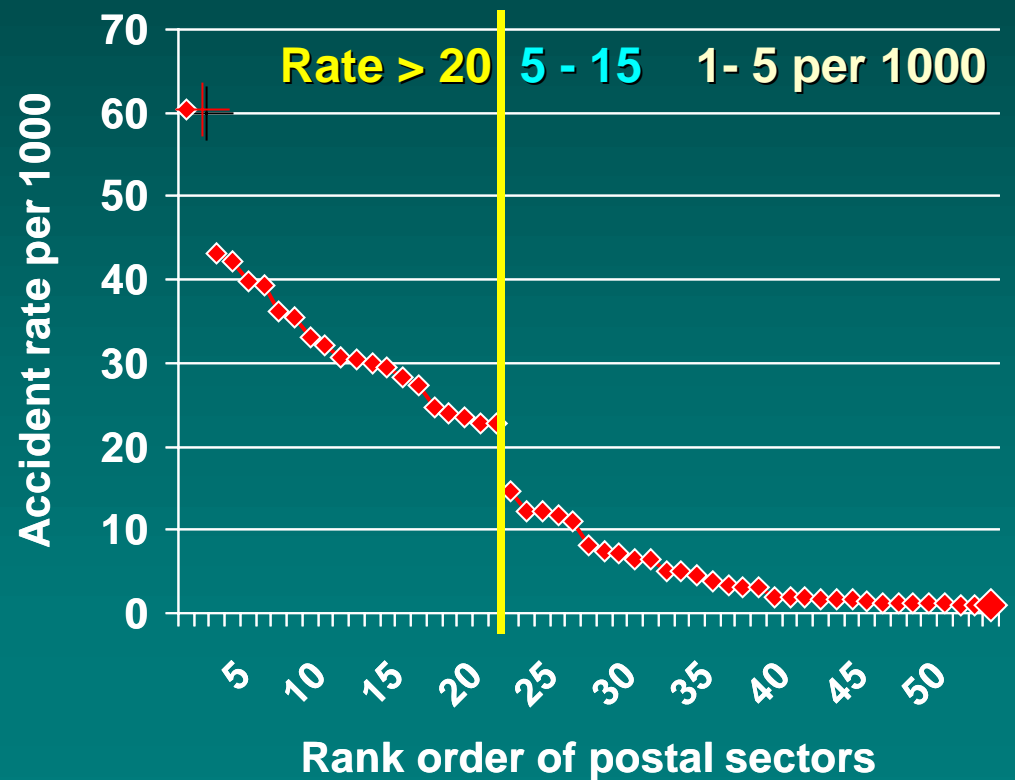
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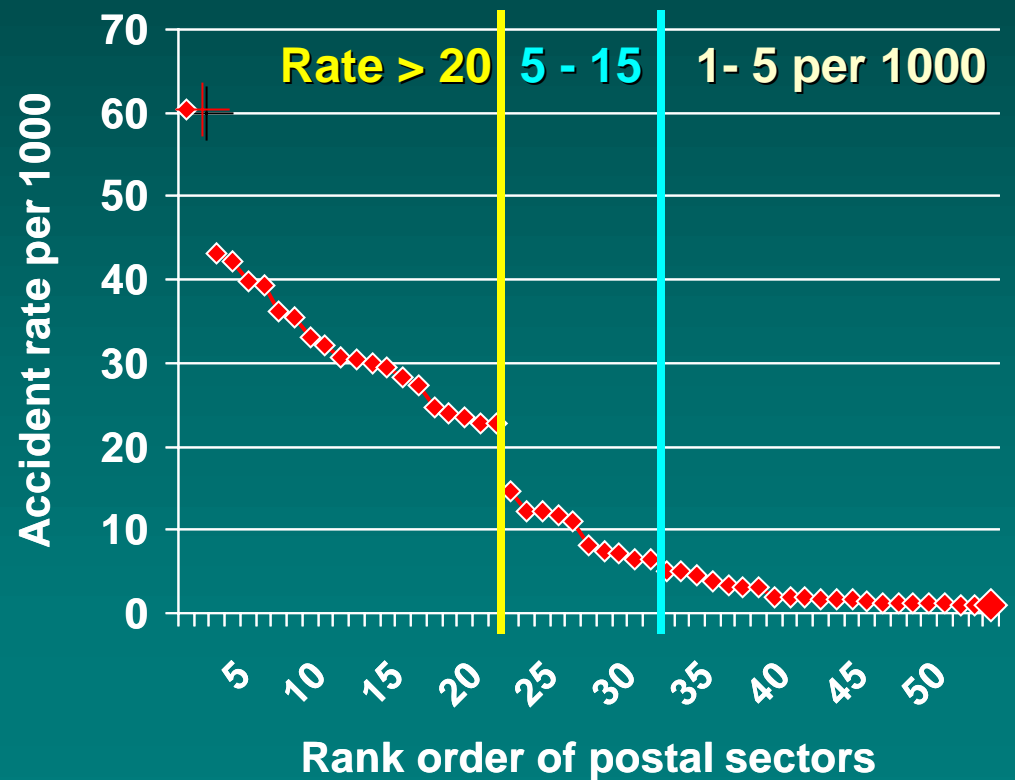
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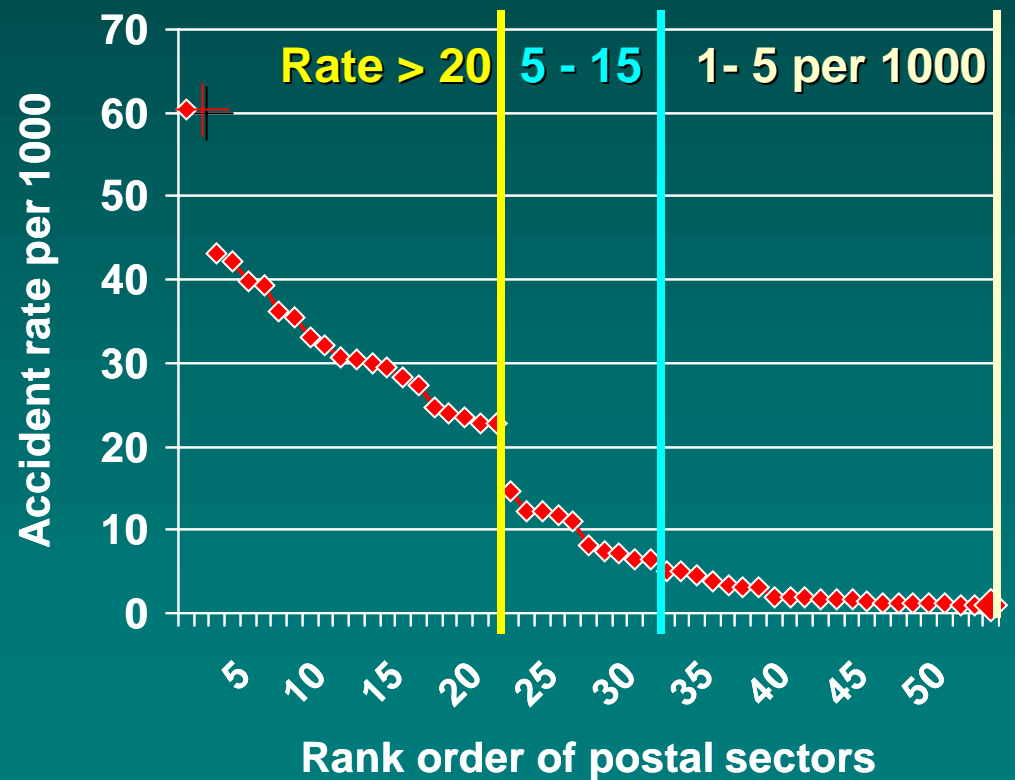
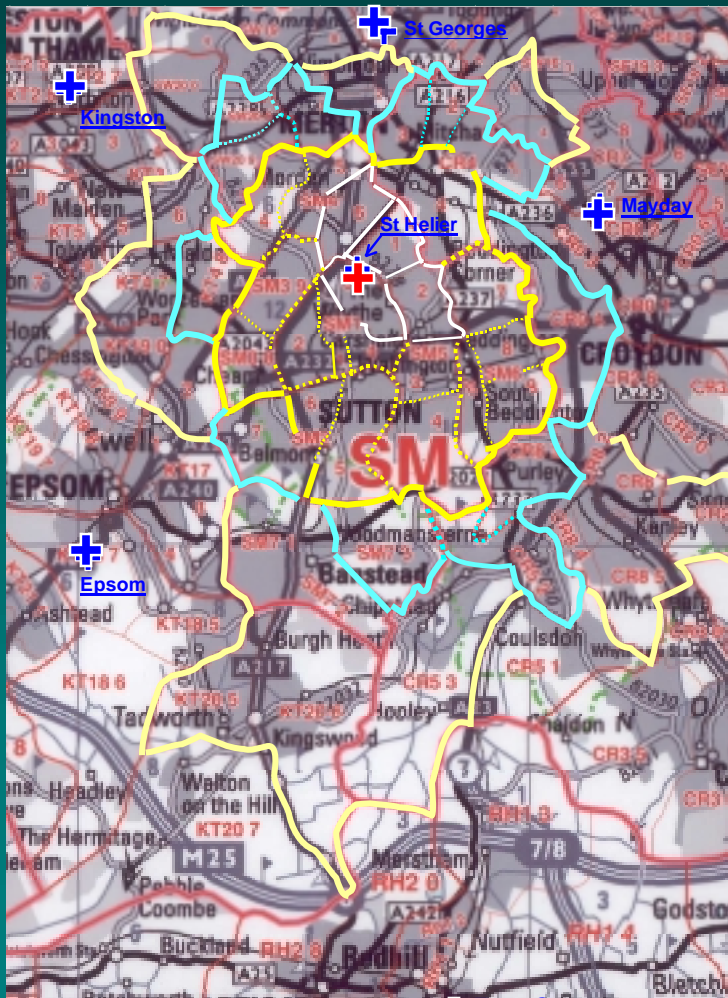
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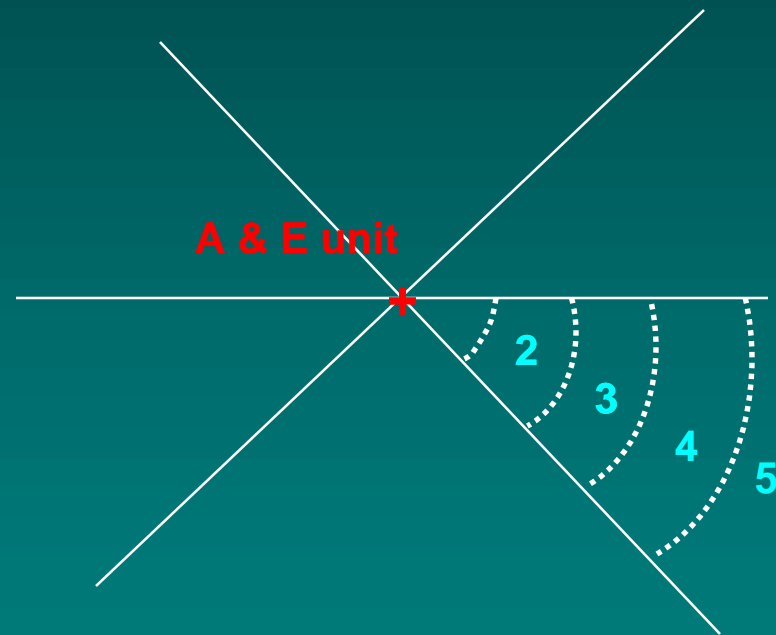


9. Accident rates in core, intermediate & outer catchment areas of St Helier hospital, Sutton



10. Determination of Zones for relative distance of accident from hospital A & E unit

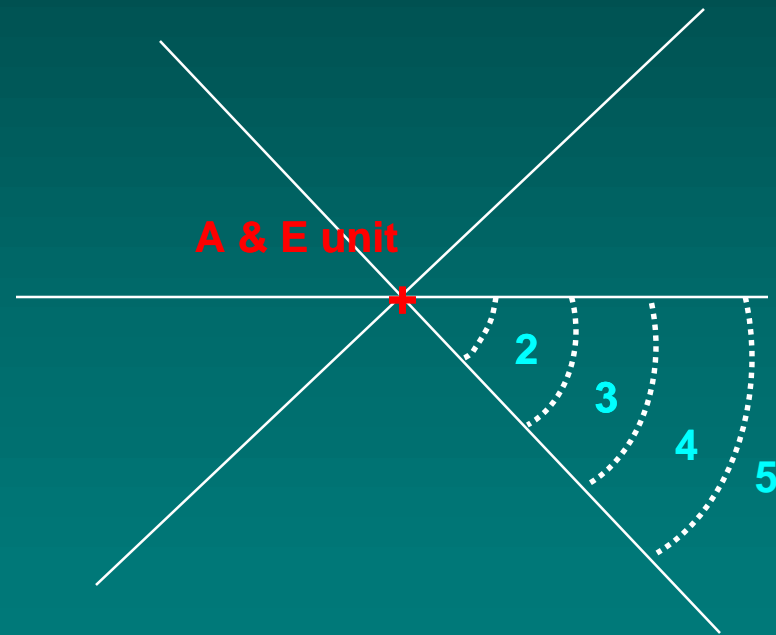
Core catchment area



10. Determination of Zones for relative distance of accident from hospital A & E unit

Selly Oak A & E unit B29 6JG

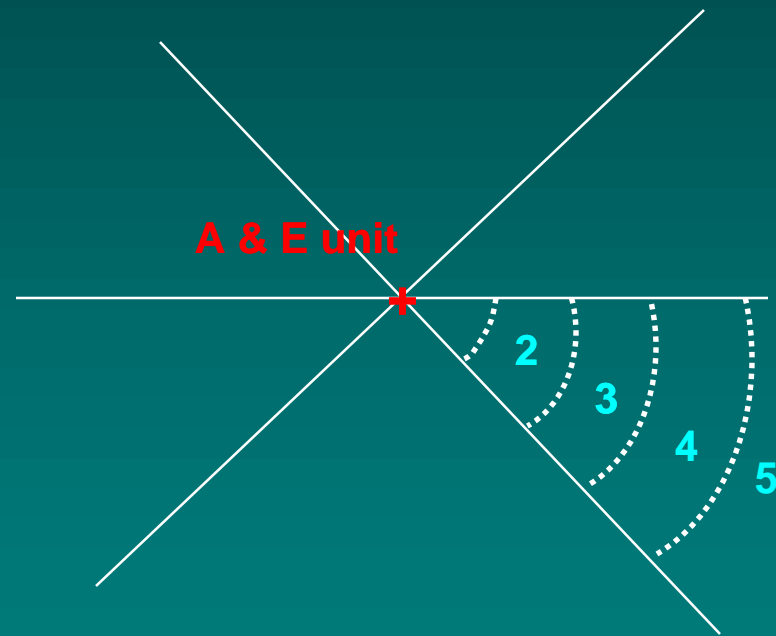
Core catchment area



10. Determination of Zones for relative distance of accident from hospital A & E unit

Selly Oak A & E unit B29 6JG
Grid ref: 404236E 282261N

Core catchment area



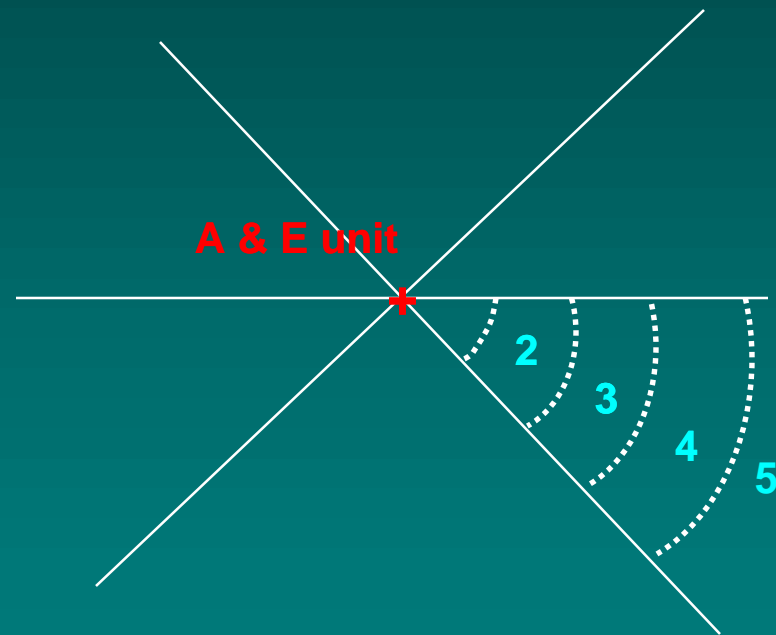
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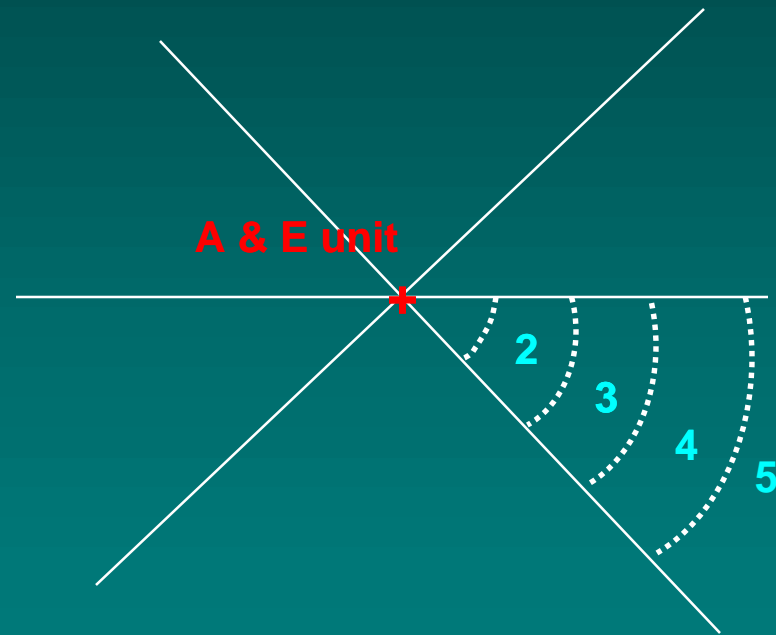
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Core catchment area



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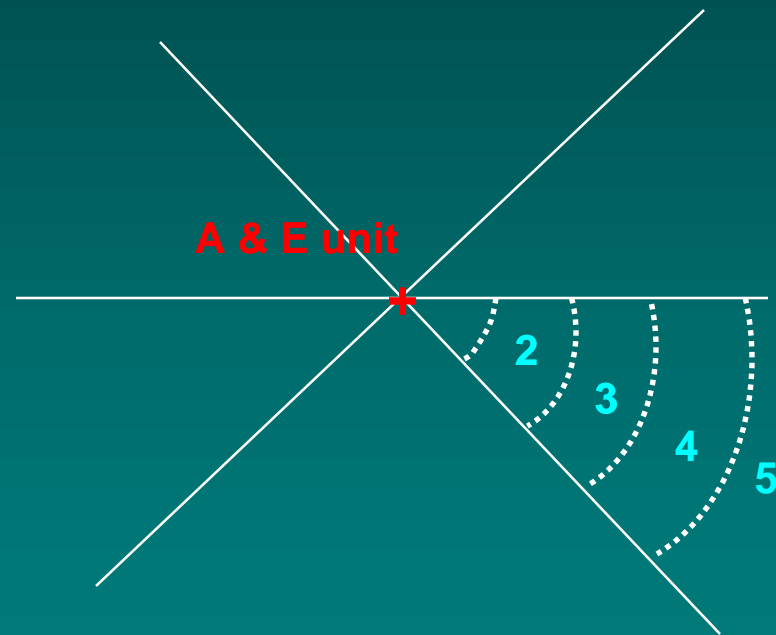
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Accident in B13 0JP

Core catchment area



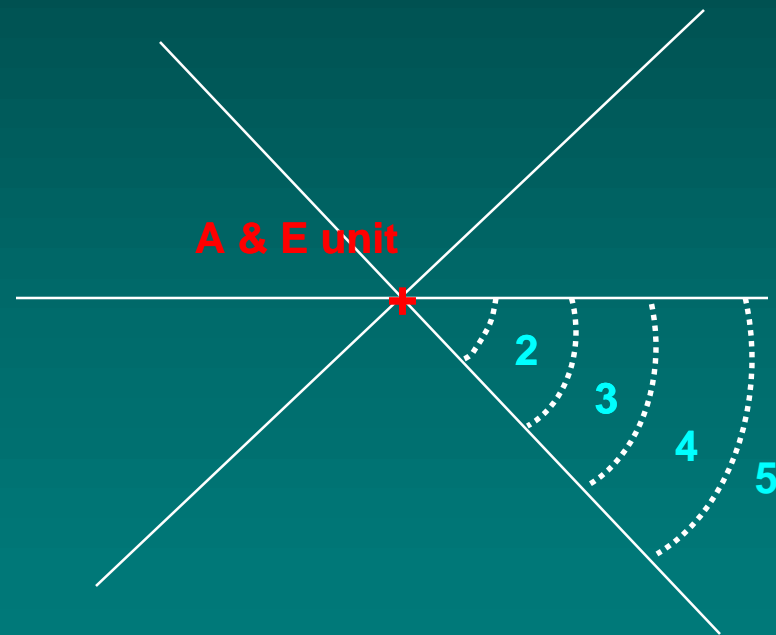
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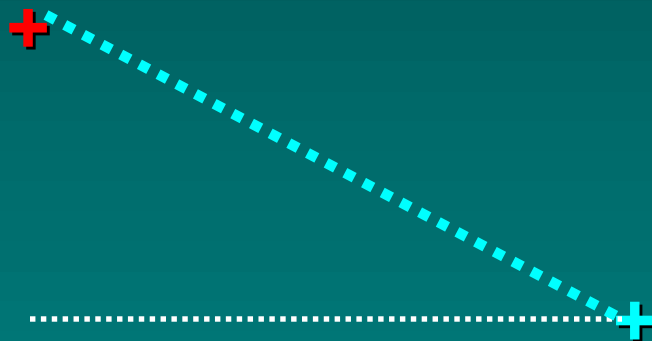


Accident in B13 0JP

408660E 280245N

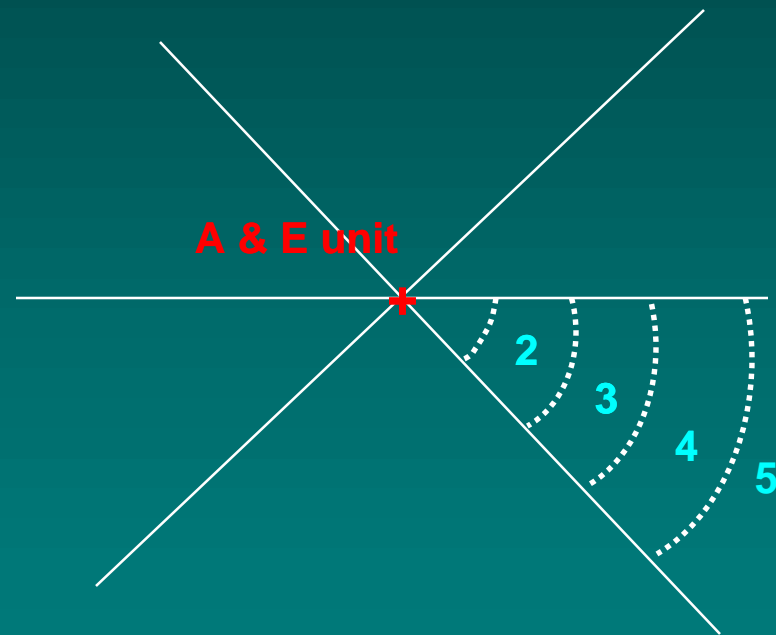
10. Determination of Zones for relative distance of accident from hospital A & E unit

Selly Oak A & E unit B29 6JG
Grid ref: 404236E 282261N



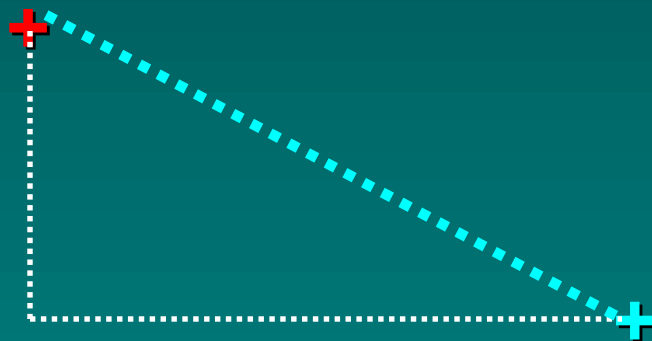
Accident in B13 0JP
408660E 280245N

Core catchment area



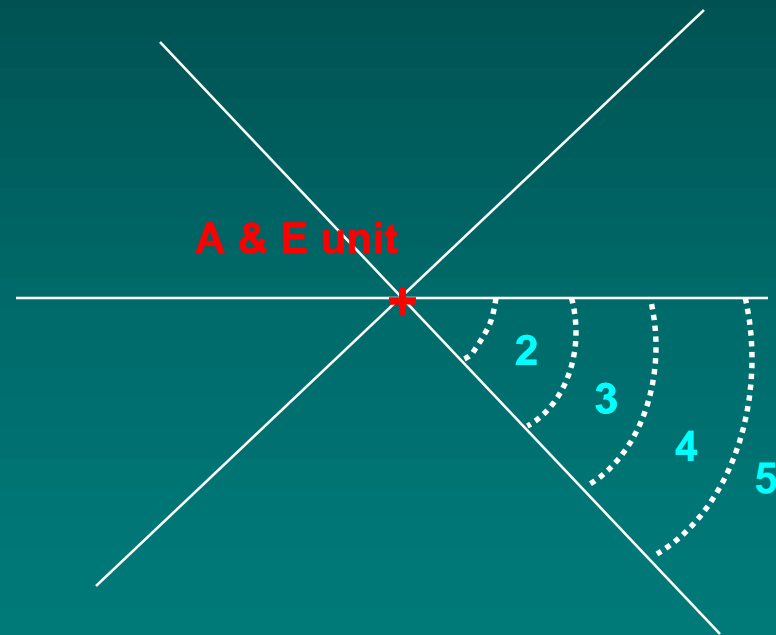
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Accident in B13 0JP
408660E 280245N

Core catchment area



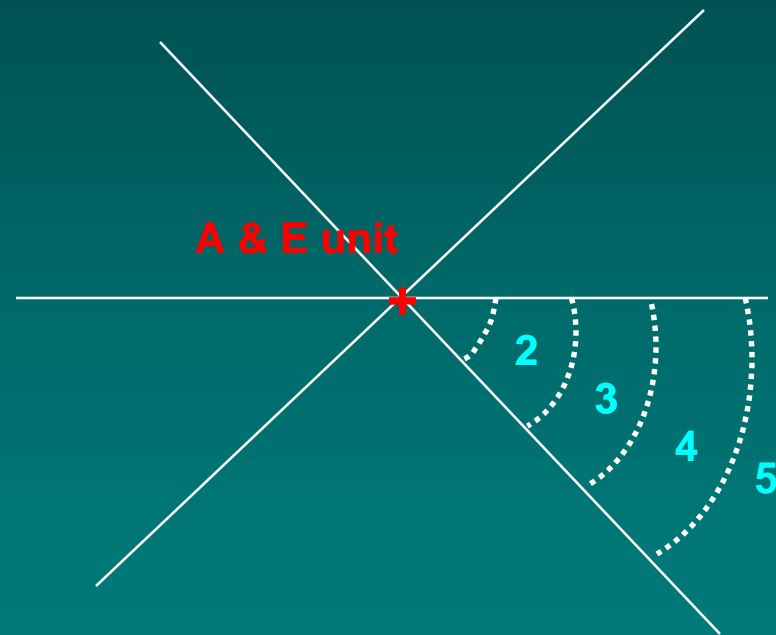
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Accident in B13 0JP
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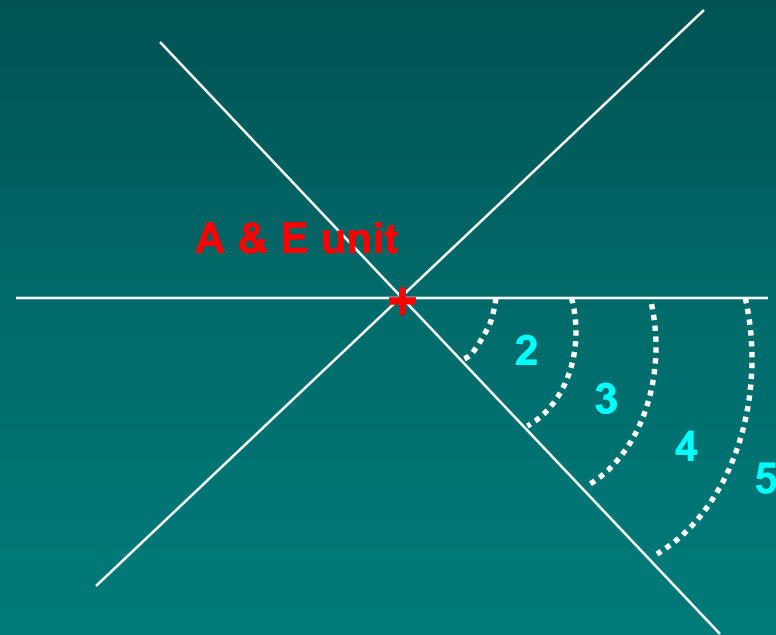
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Core catchment area



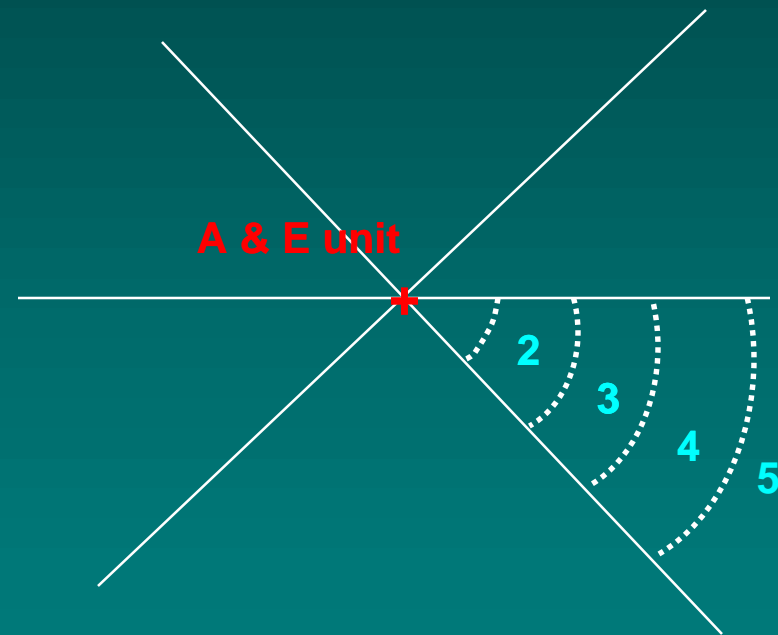
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Core catchment area



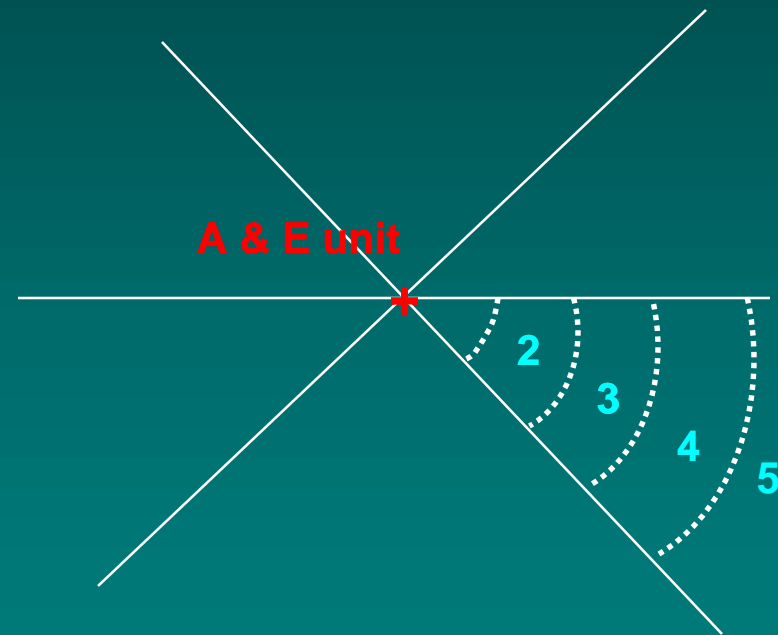
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Core catchment area



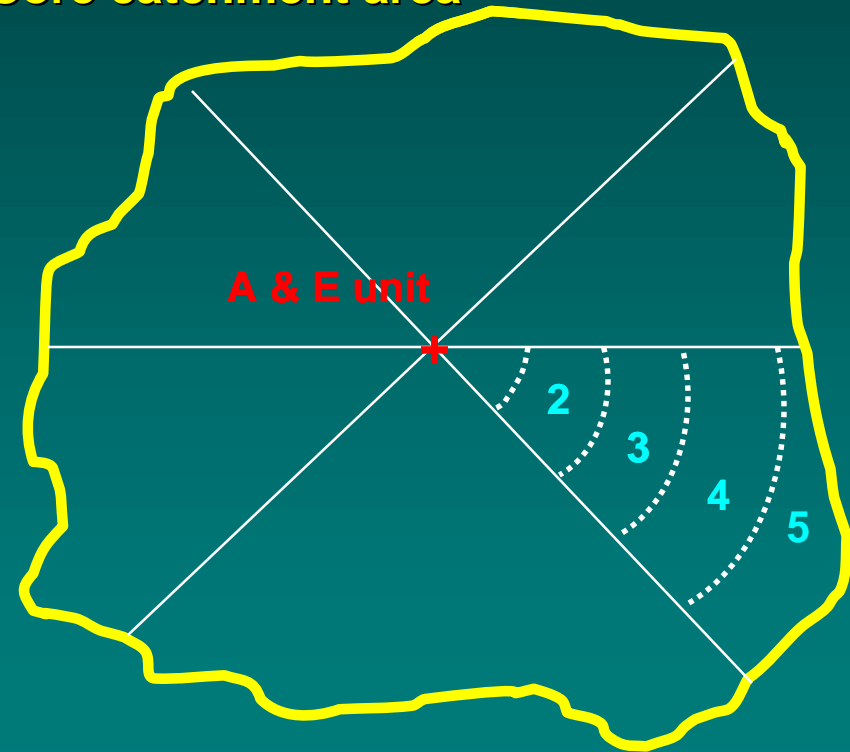
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Core catchment area



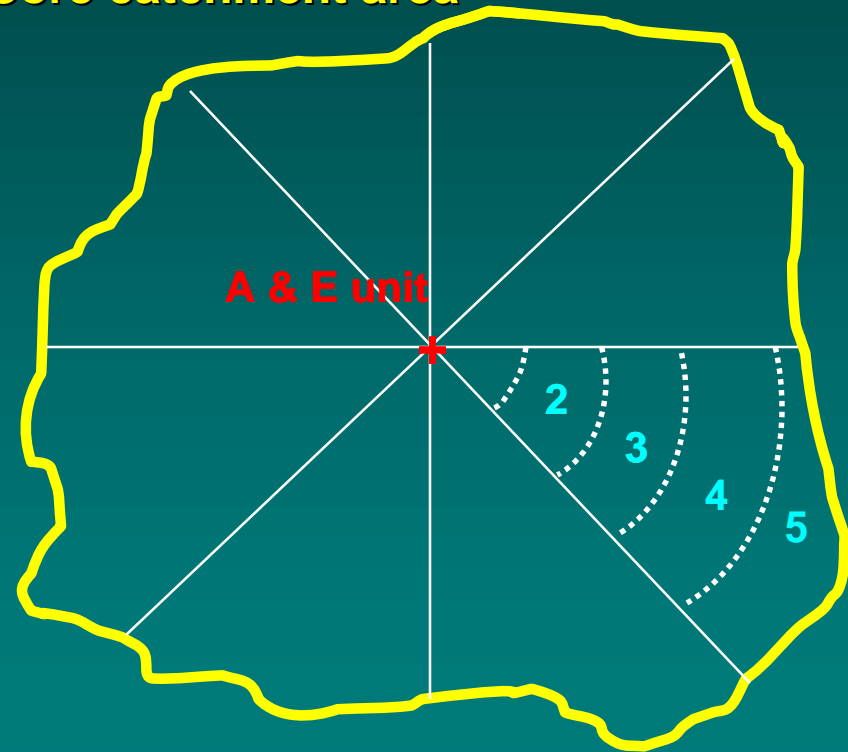
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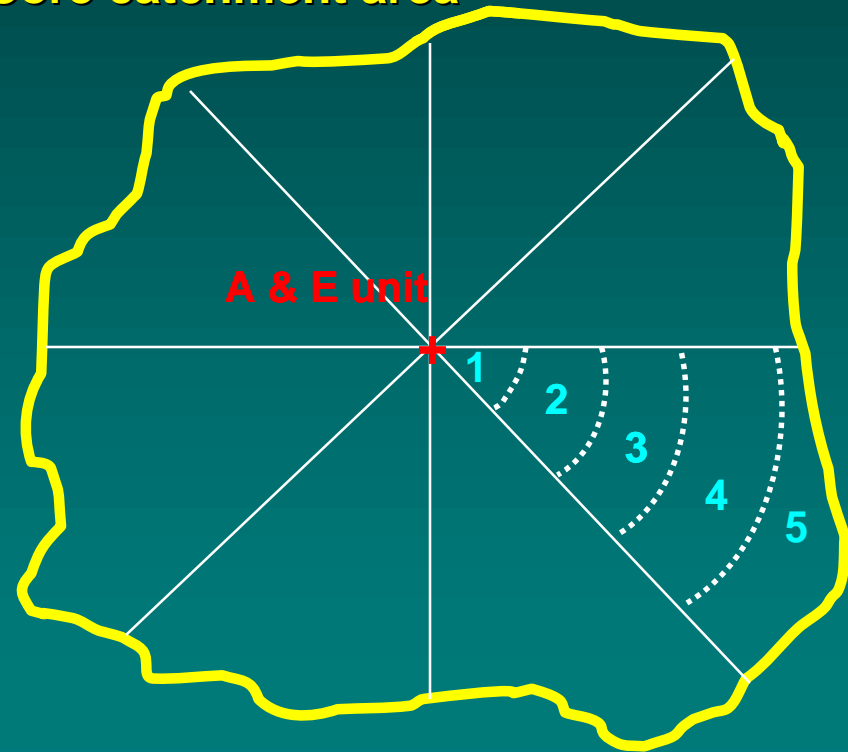
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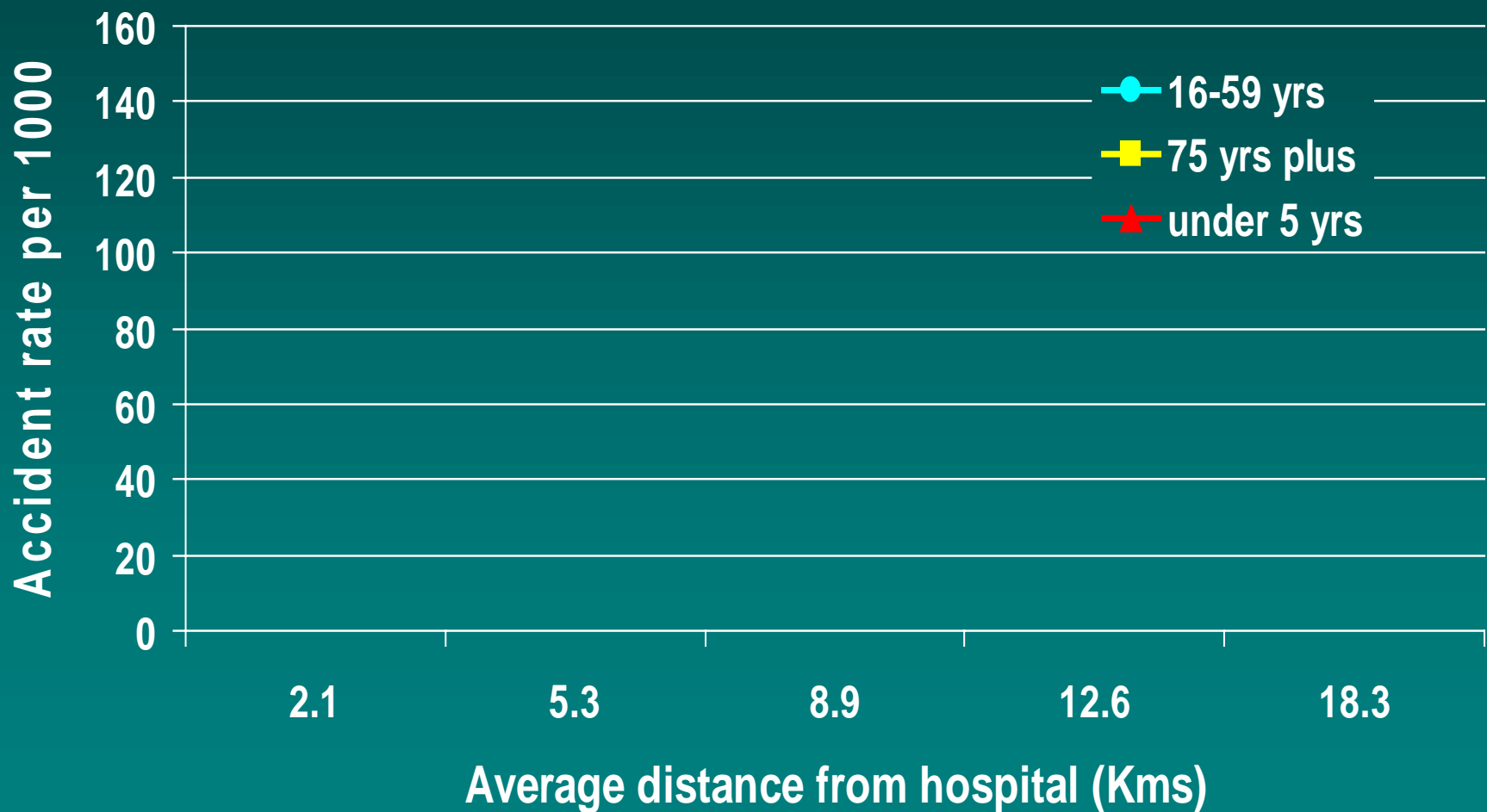


Core catchment area

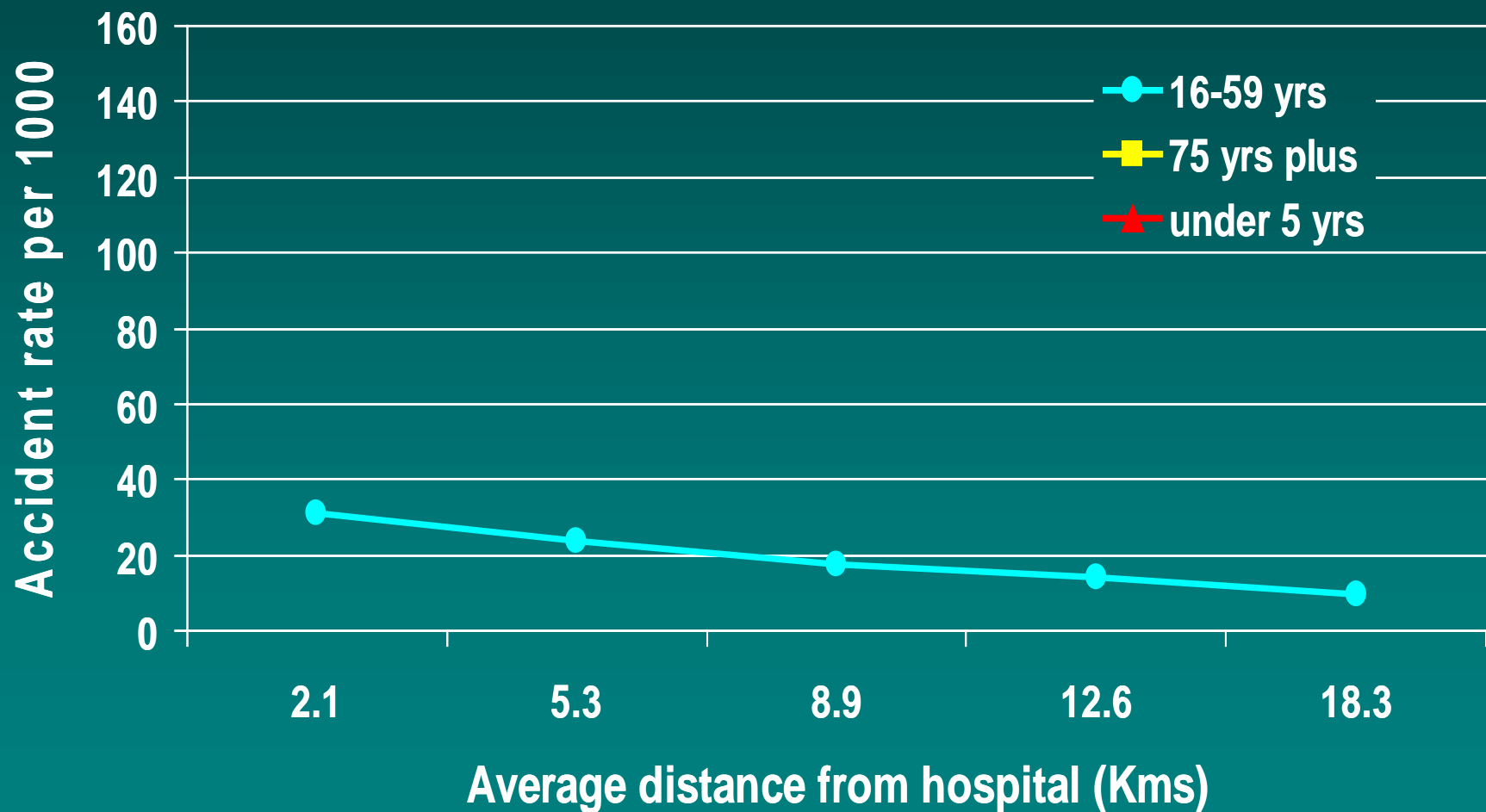


11. Reduction in accident admissions with distance from hospital by age of person

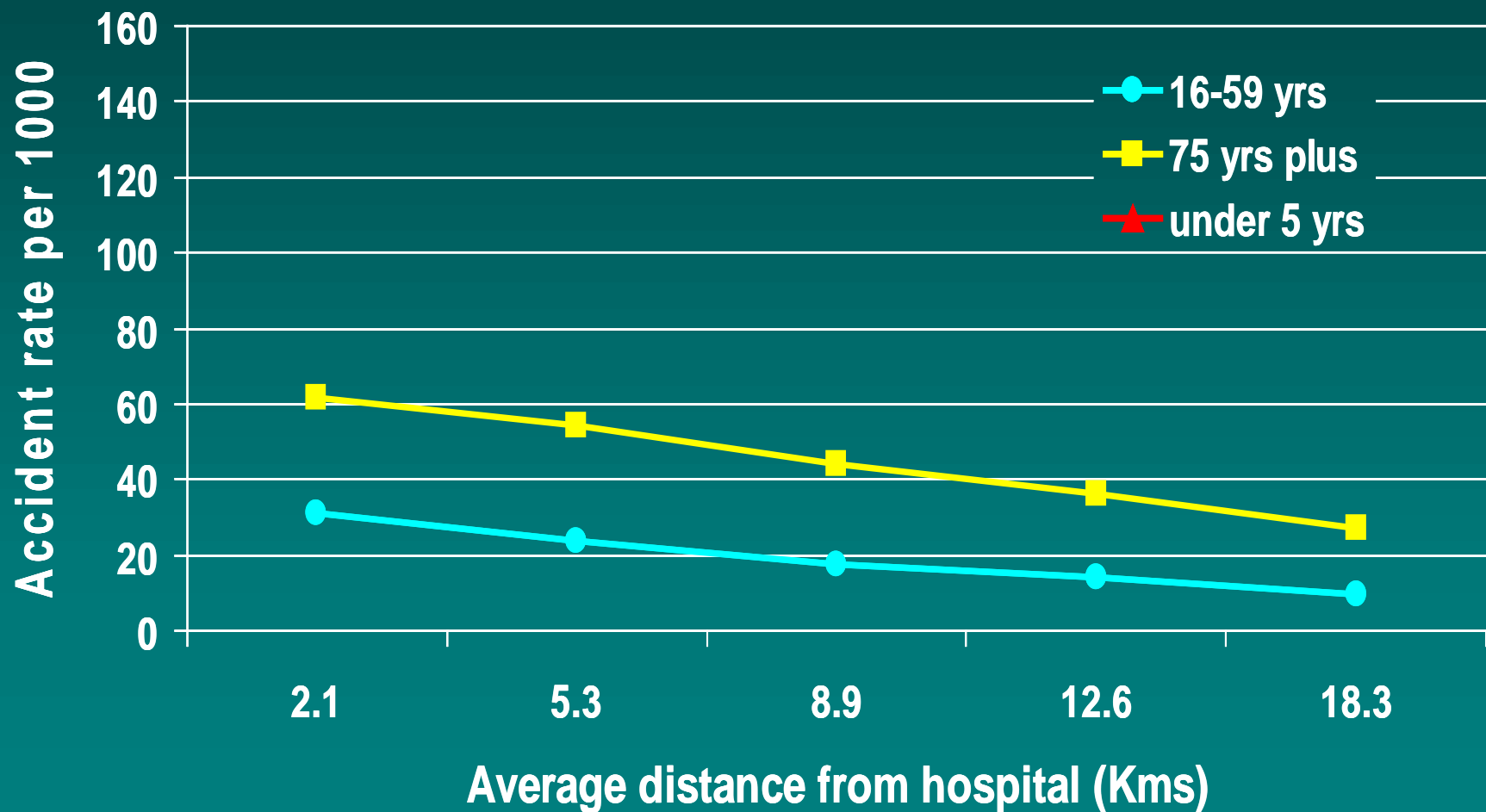
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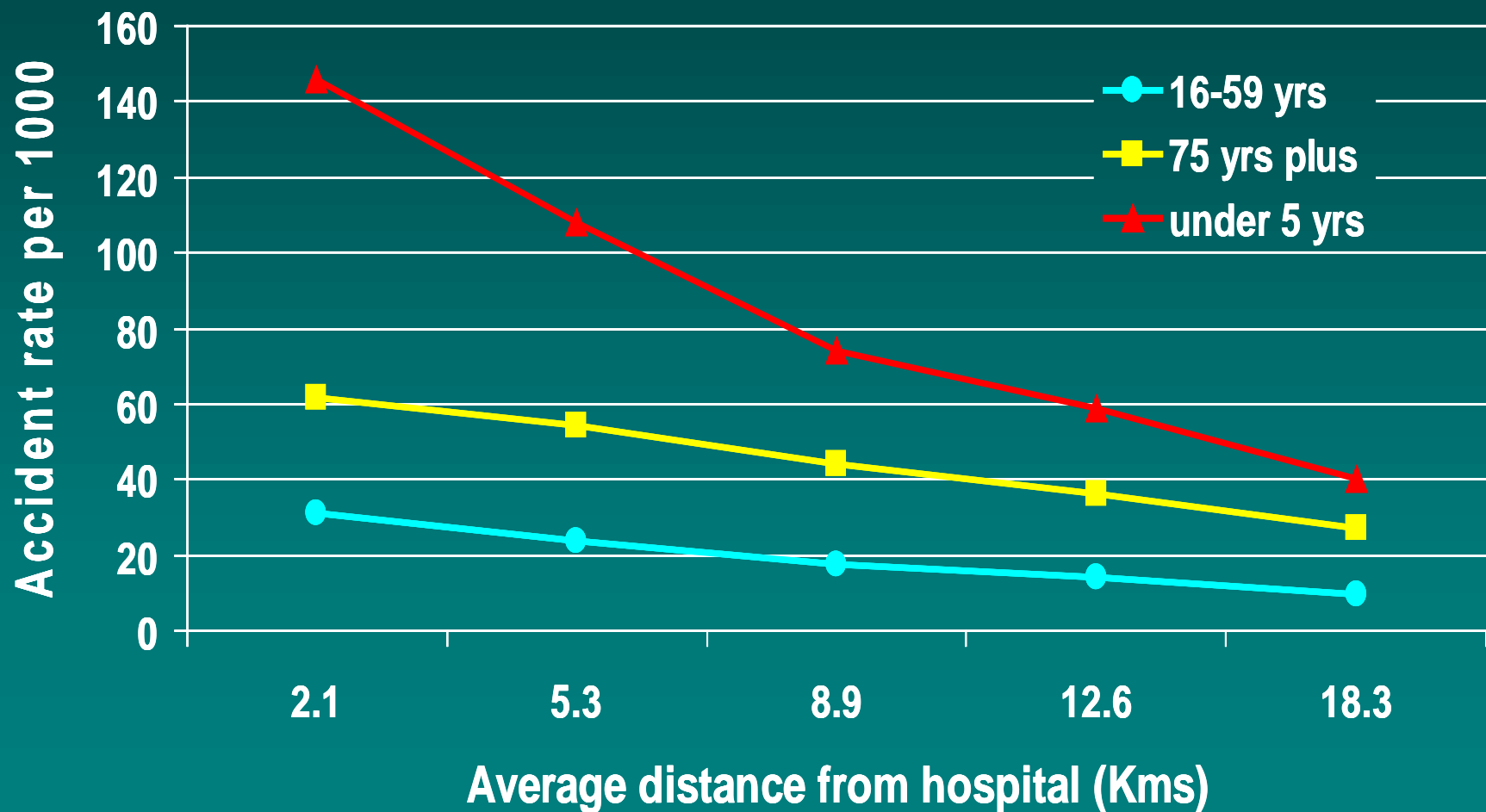
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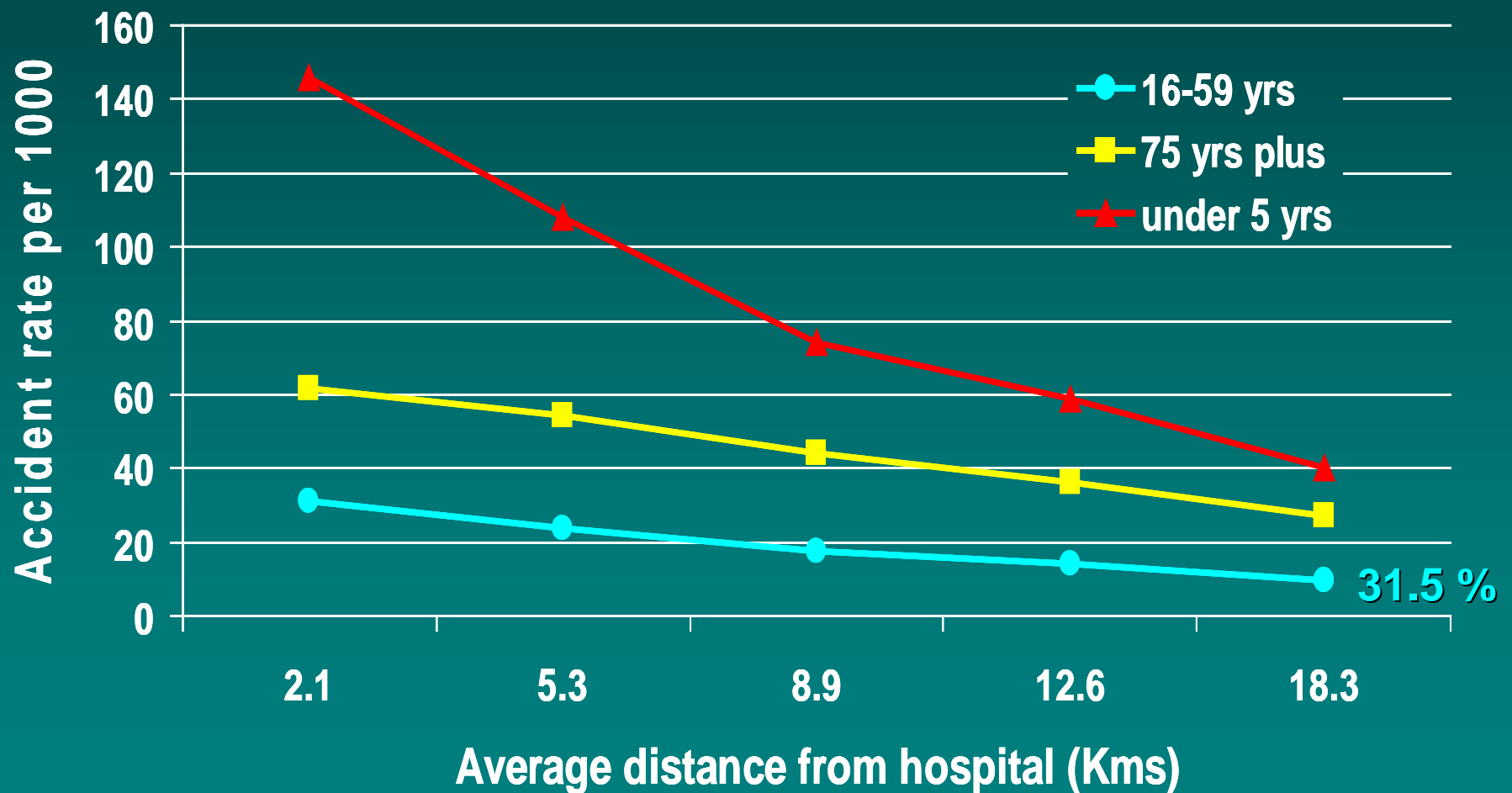
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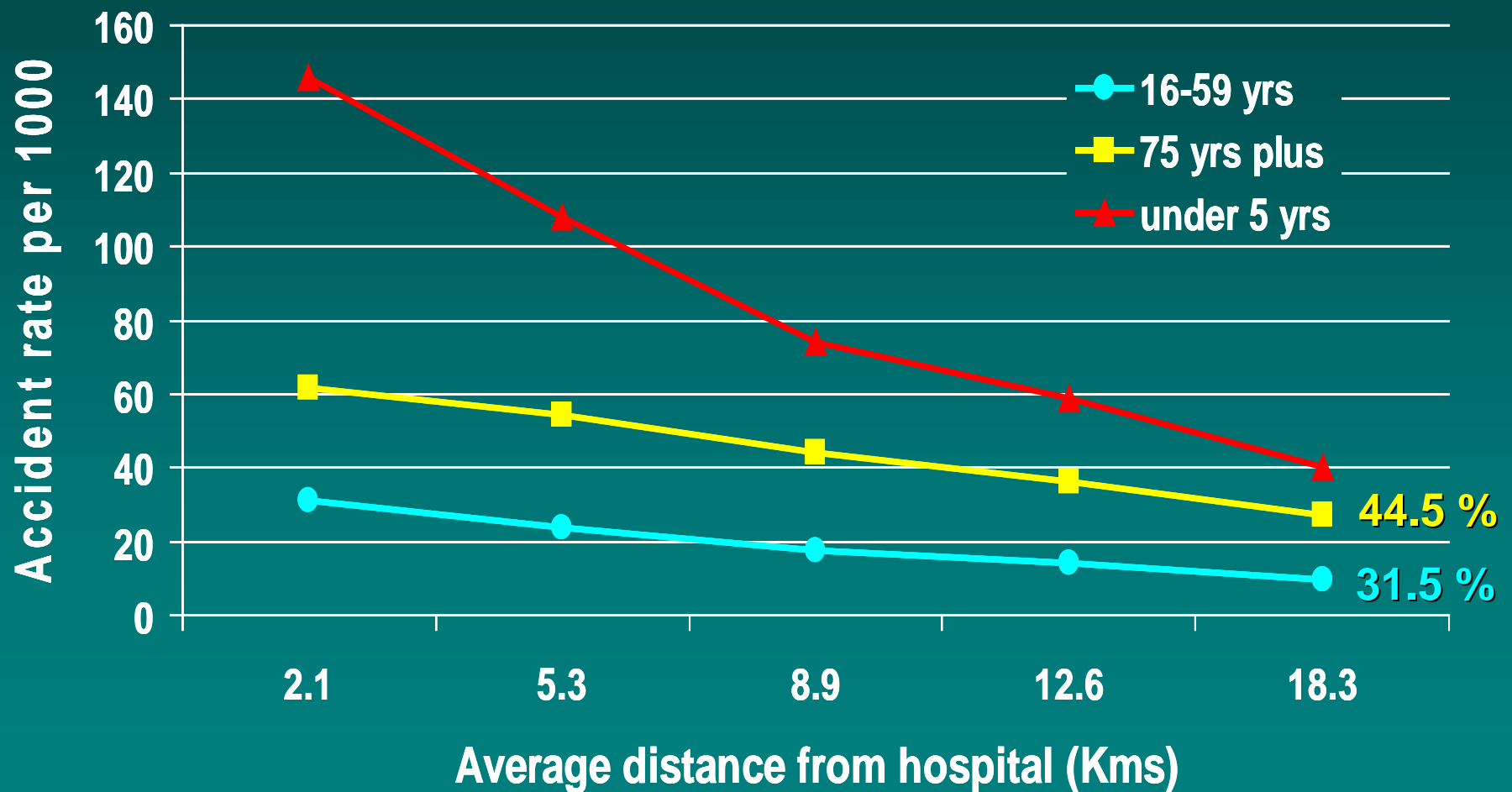
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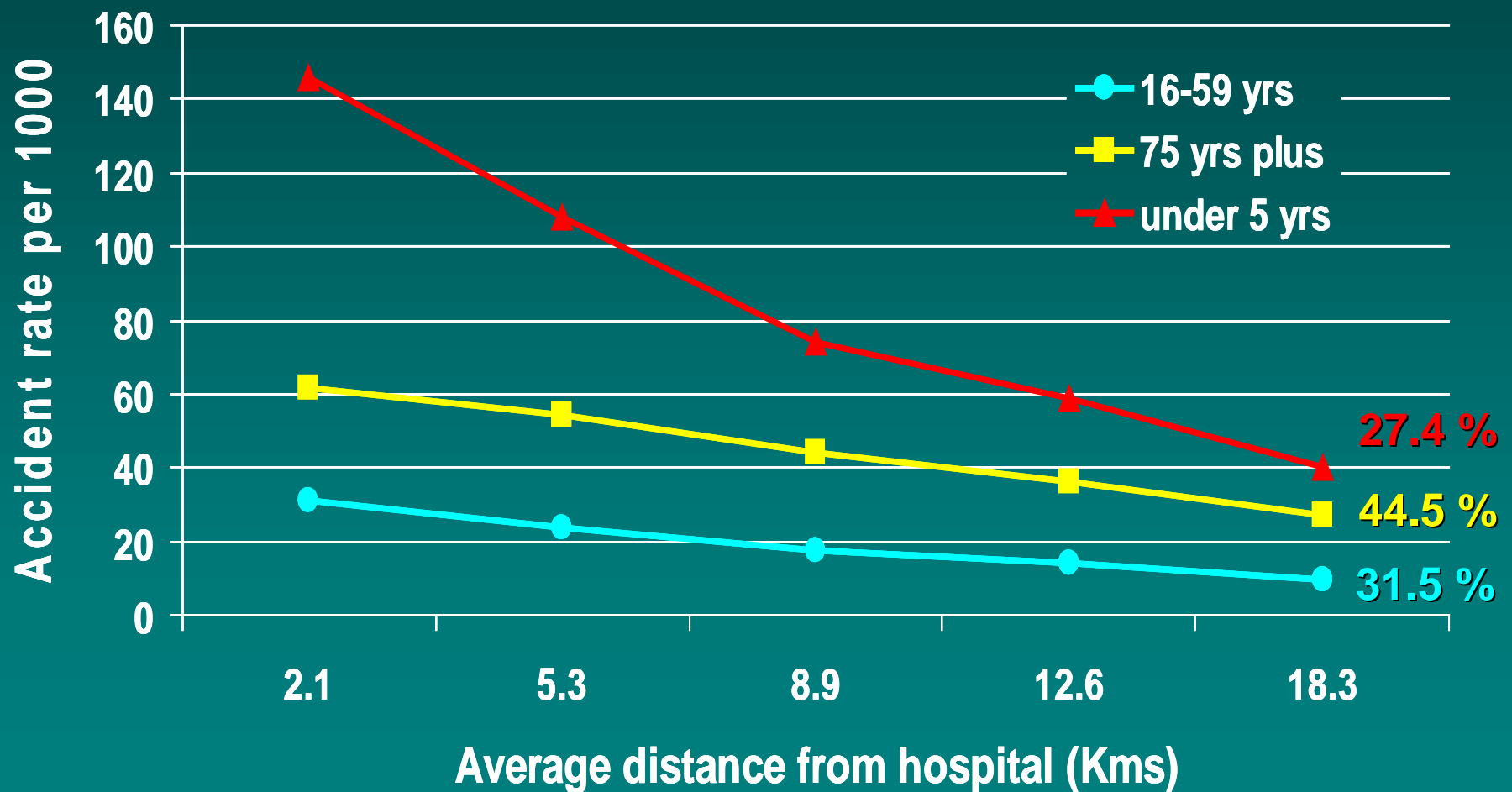
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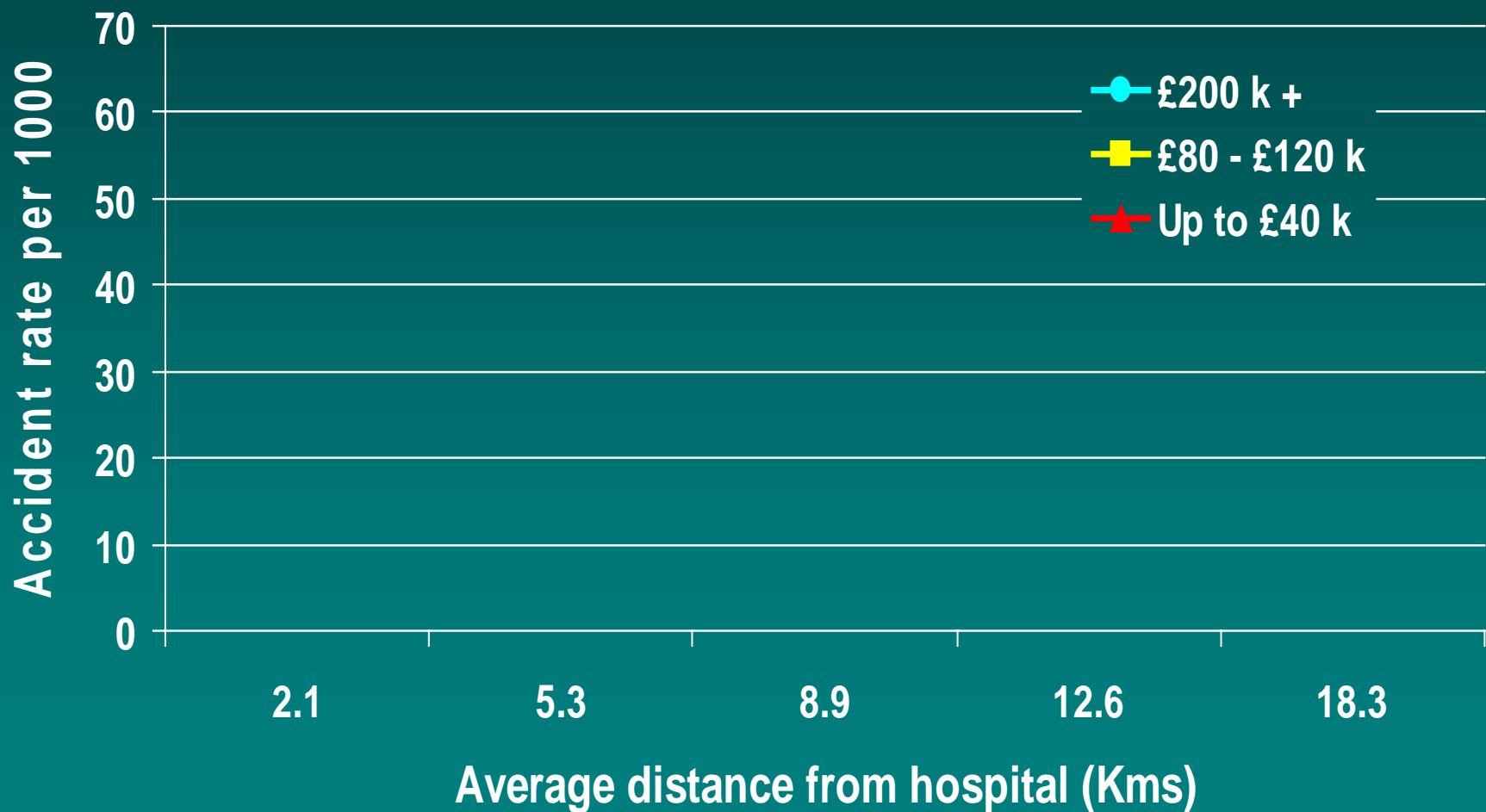


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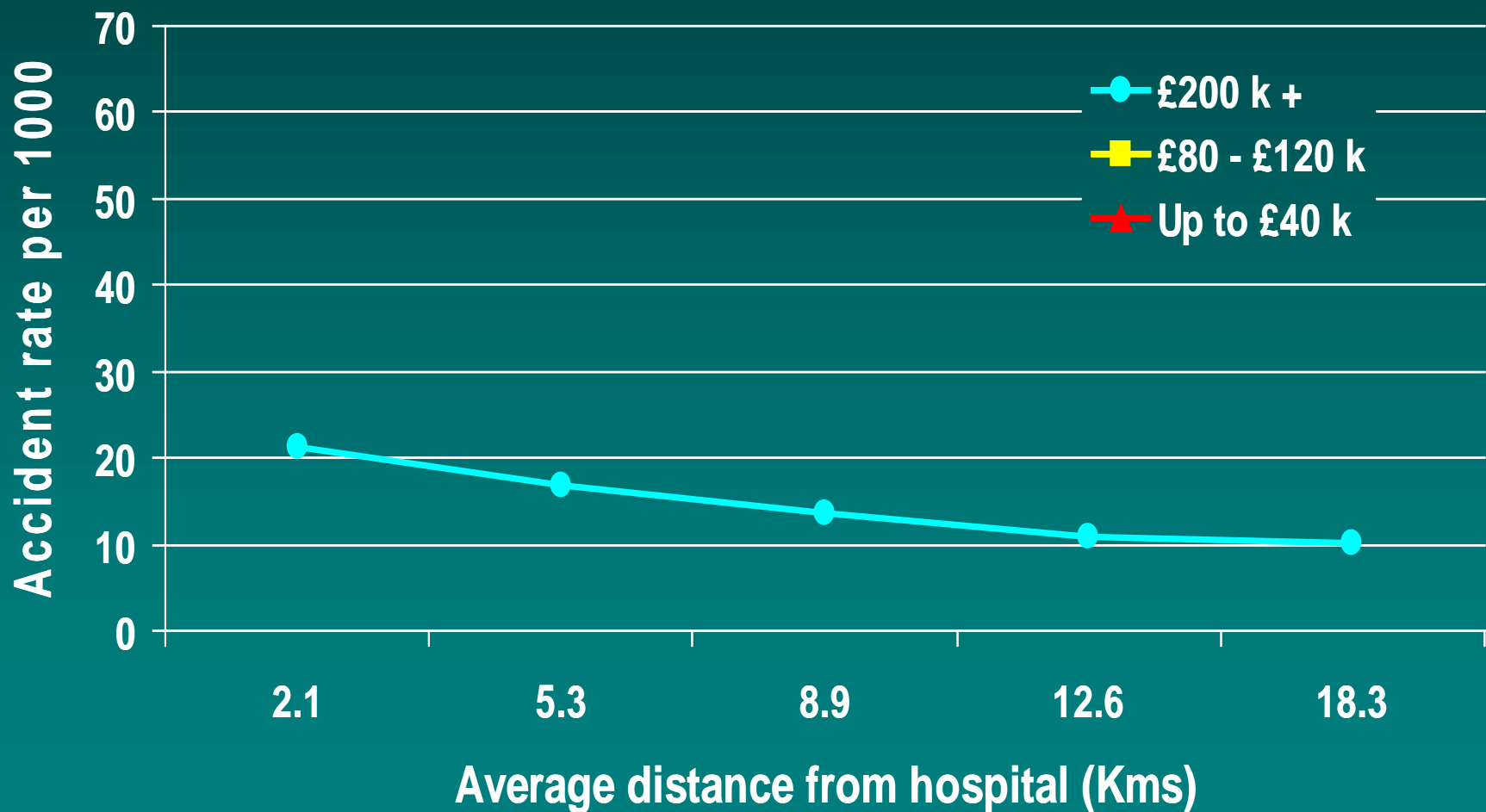


12. Reduction in accident admissions with distance from hospital by property value

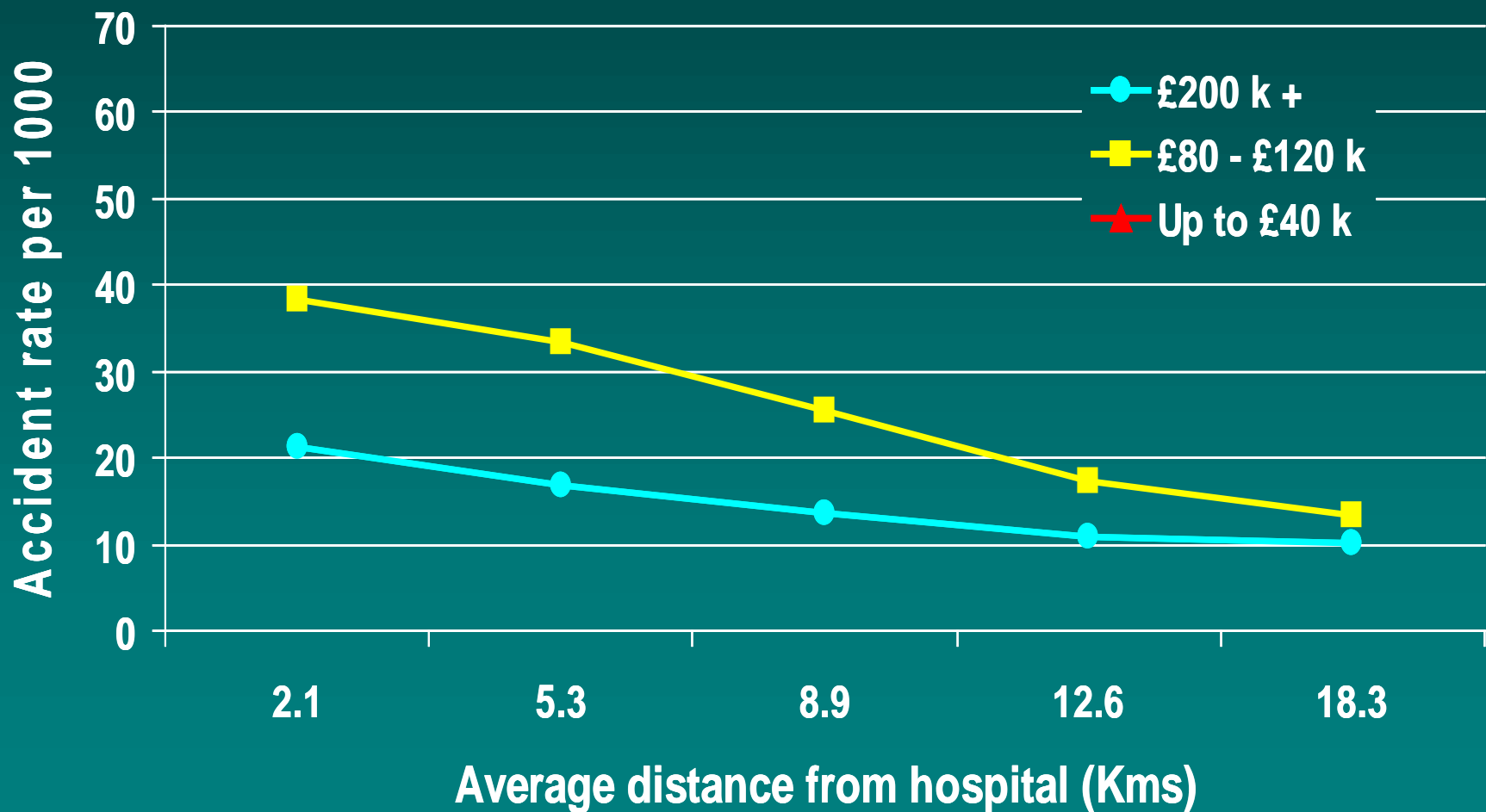
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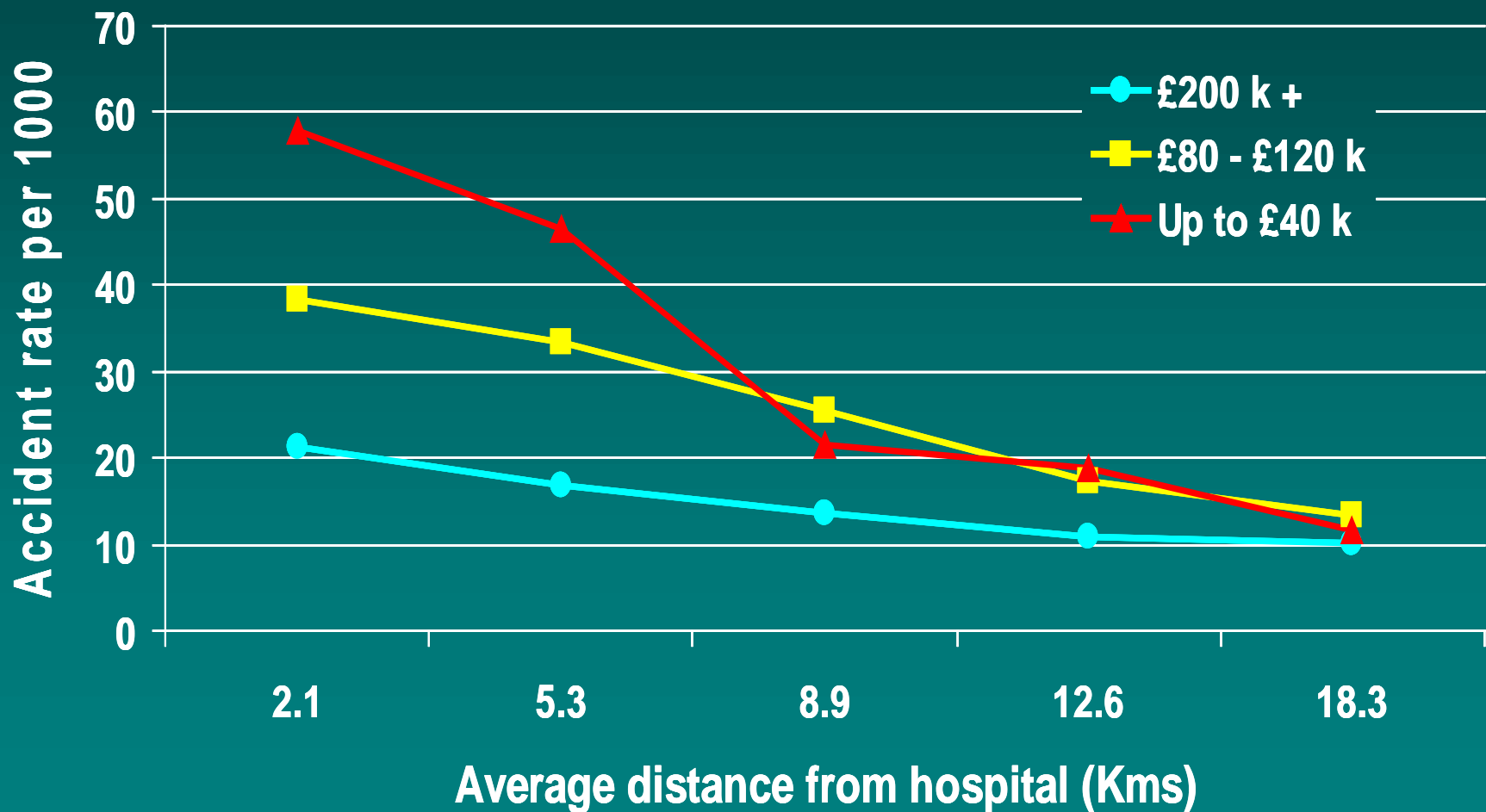
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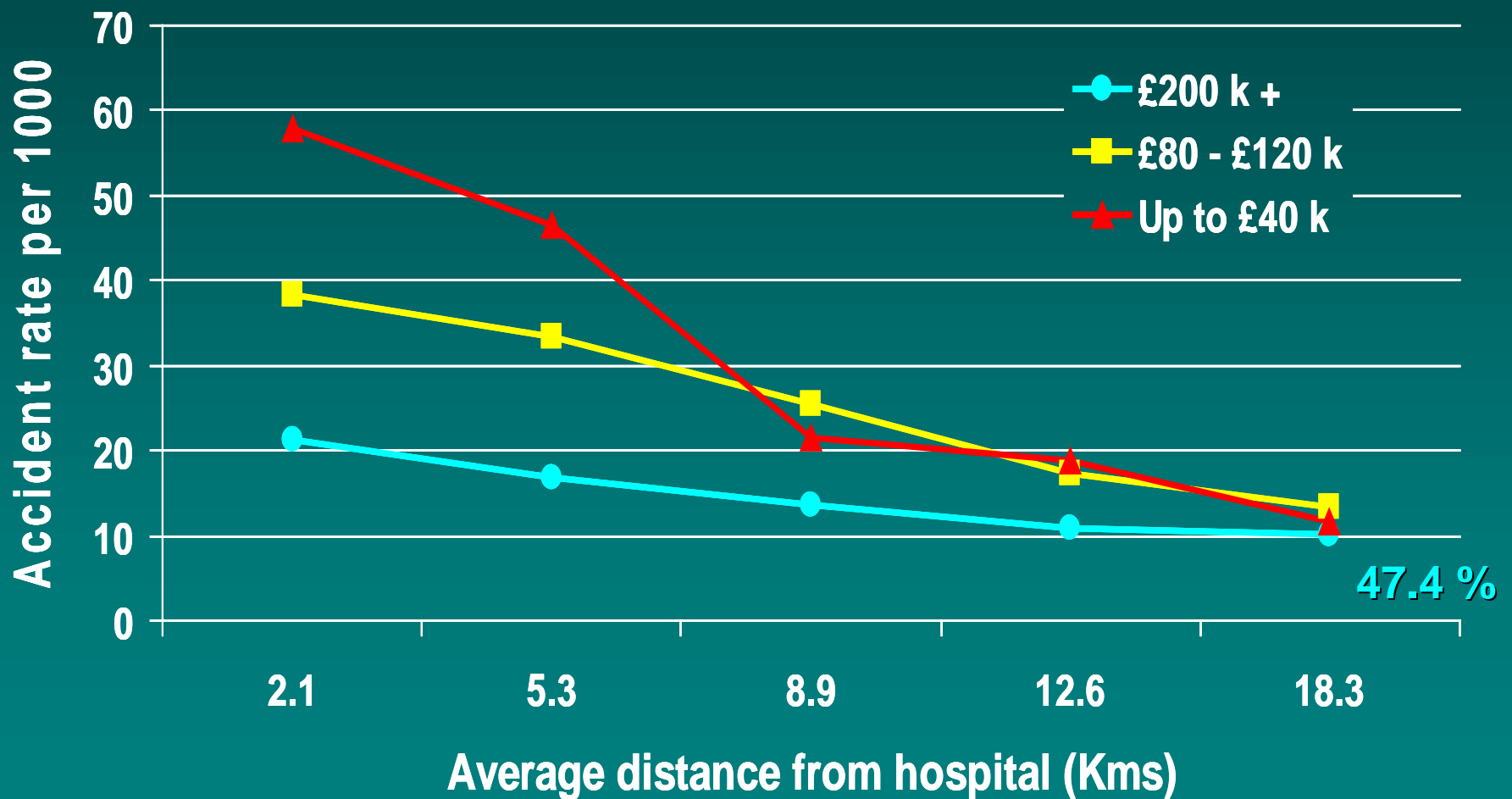
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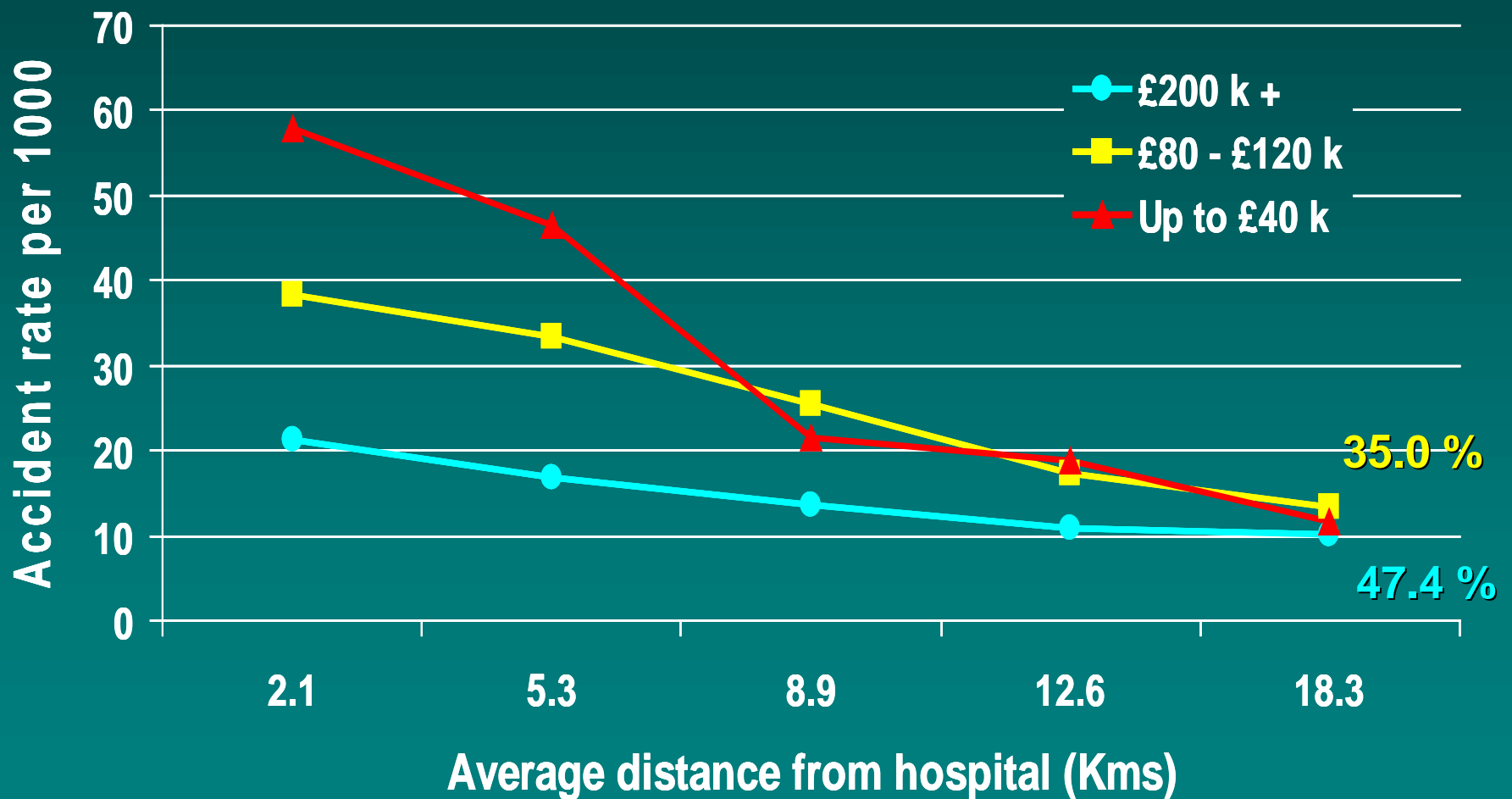
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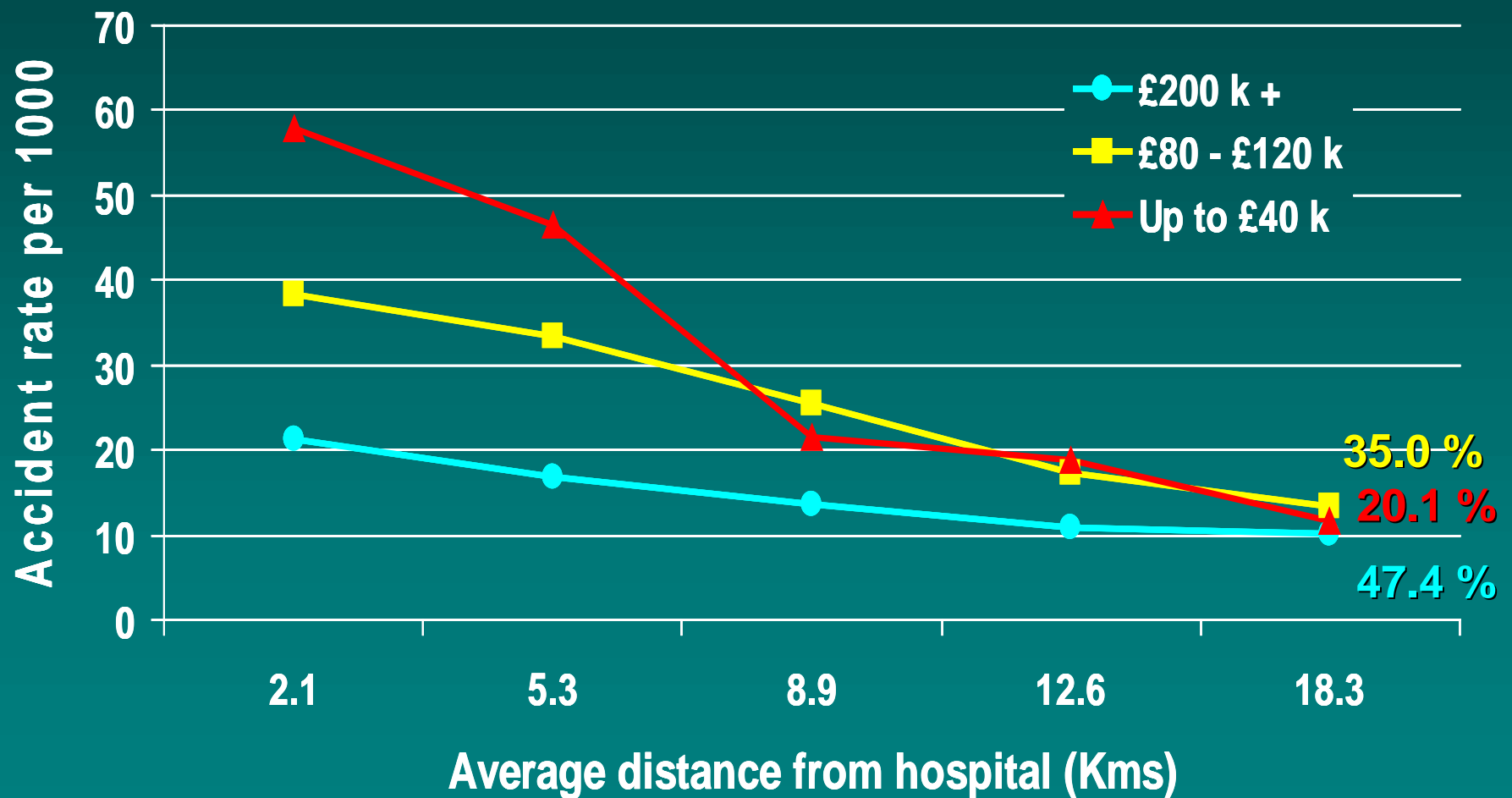
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13. Postcode samples providing housing and population, fatal and non-accident data, 1997/99

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1) 87 thousand (k) postcodes

In HASS catchments

With housing & popn. data

- Fatal accident data
- Non-fatal accident data

2) 19 k postcodes

In HASS catchments

Without housing & popn. data

- (Fatality data not used)
- Non-fatal accident data

3) 1,112 k postcodes

Outside HASS areas

With housing & popn. data

- Fatal accident data
- Some non-fatal accidents

4) 319 k postcodes

Outside HASS areas

Without housing & popn. data

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14. Corrected 3 yr samples for fatal & non-fatal falls on the level and base populations

Age group	Sample population mortality	1997-99 Class I nos	Catchment population HASS	1997-99 Class II nos	1997-99 Class III nos	Class IV nos
< 5 yrs	3,106,749	0	272,196	14	439	10,710
5 -15 yrs	7,144,841	1	608,889	7	693	8,082
16-59 yrs	30,309,016	23	2,554,552	68	1,823	14,836
60 yrs +	10,523,347	403	865,952	2,548	6,156	17,209
All ages	51,083,953	427	4,301,589	2,637	9,110	50,837

- Number of fatal & non-fatal falls "on same level (slip/trip/stumble)" in and around the home, including falls at porch/thresholds where so coded - corrected for missing data. Includes such falls in communal homes.

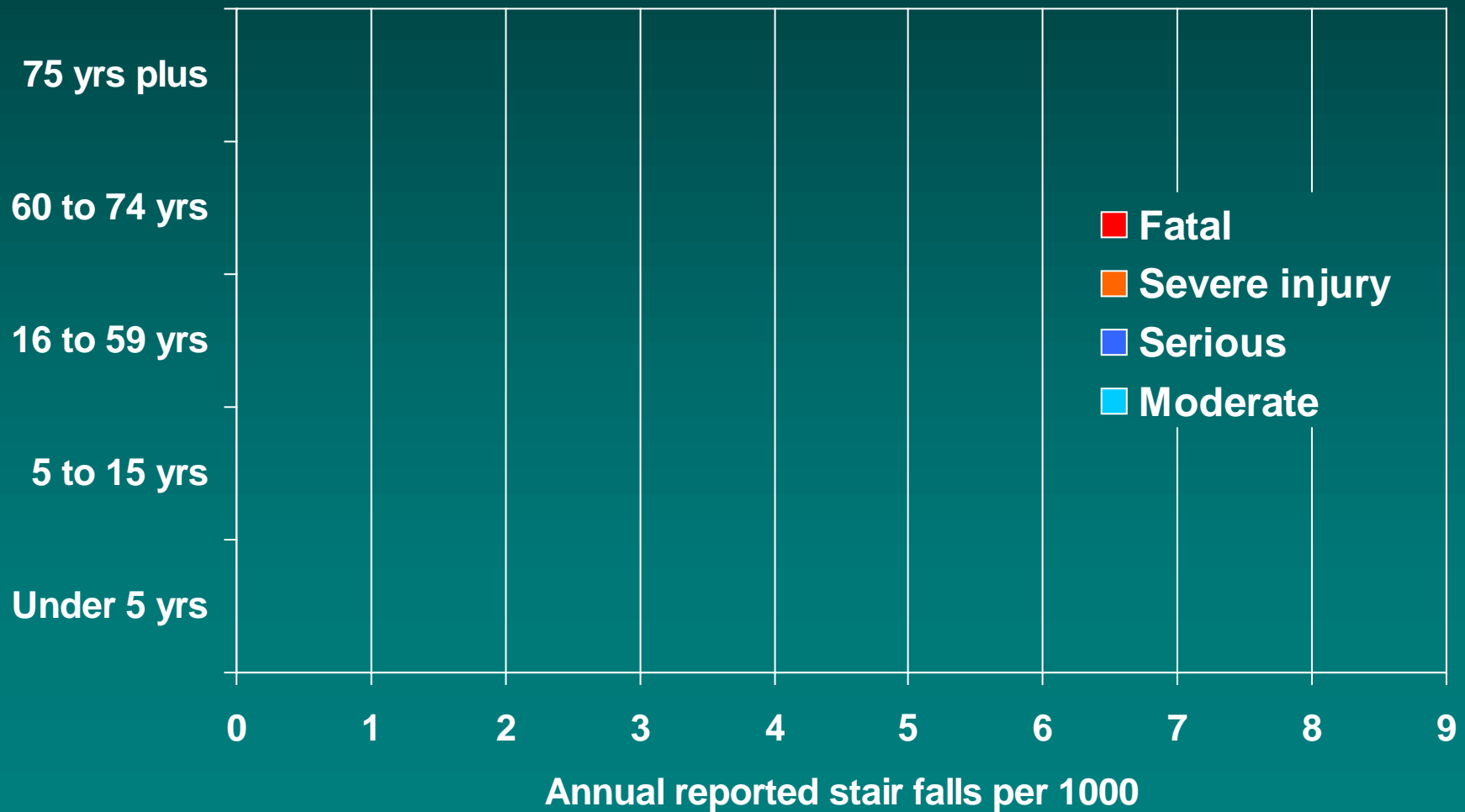
15. Corrected 3 yr samples for fatal & non-fatal electrocutions and base populations

Age group	Sample population mortality	1997-99 Class I nos	Catchment population HASS	1997-99 Class II nos	1997-99 Class III nos	Class IV nos
< 5 yrs	3,106,749	3	272,196	4	26	19
5 -15 yrs	7,144,841	3	608,889	3	35	27
16-59 yrs	30,309,016	36	2,554,552	15	172	118
60 yrs +	10,523,347	11	865,952	2	18	7
	51,083,953	53	4,301,589	24	251	171

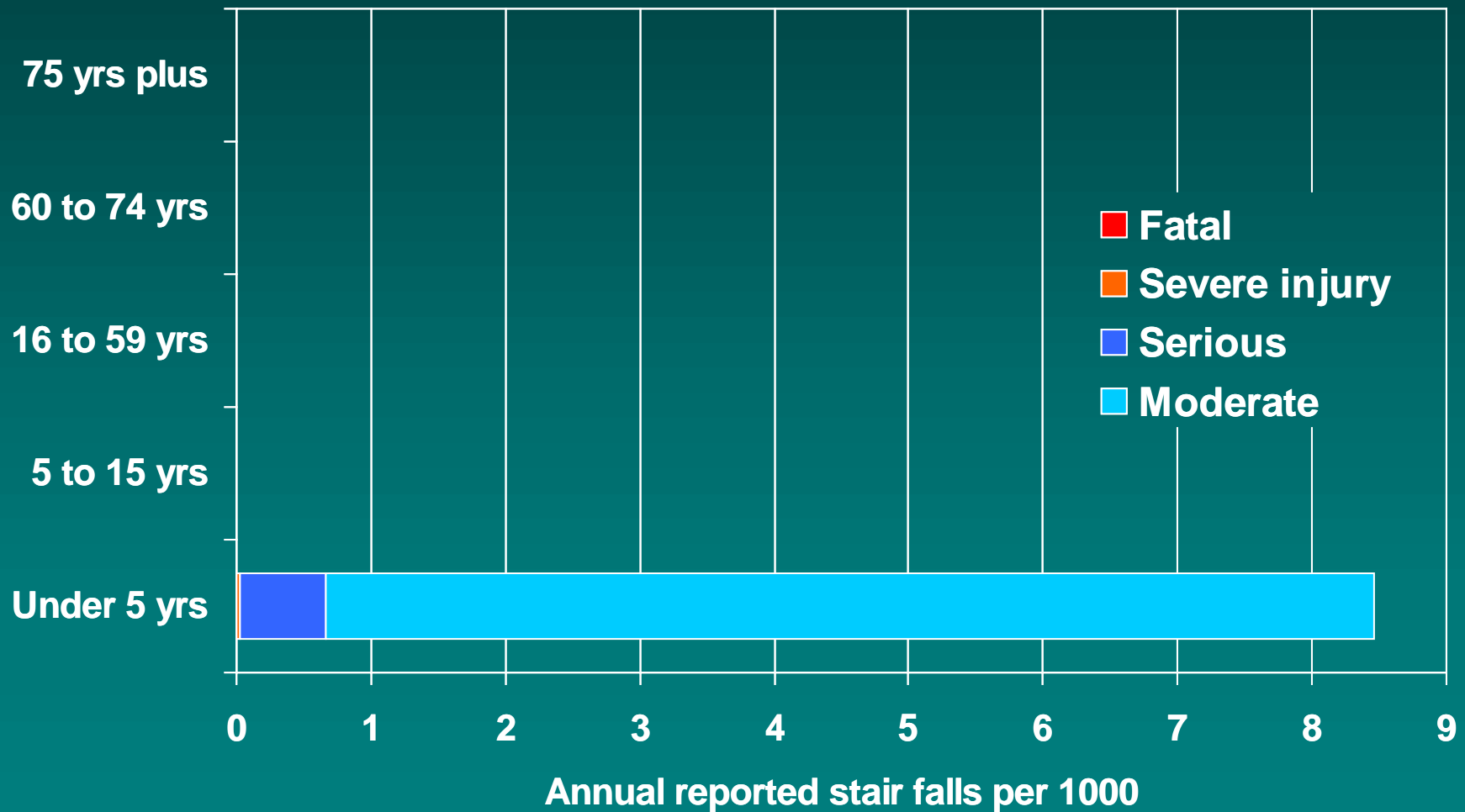
- Number of fatal & non-fatal falls "on same level (slip/trip/stumble)" in and around the home, including falls at porch/thresholds where so coded. Includes such falls in communal homes.

16: Rate (x/1000/yr) and severity of reported falls on all stairs/steps by age of victim

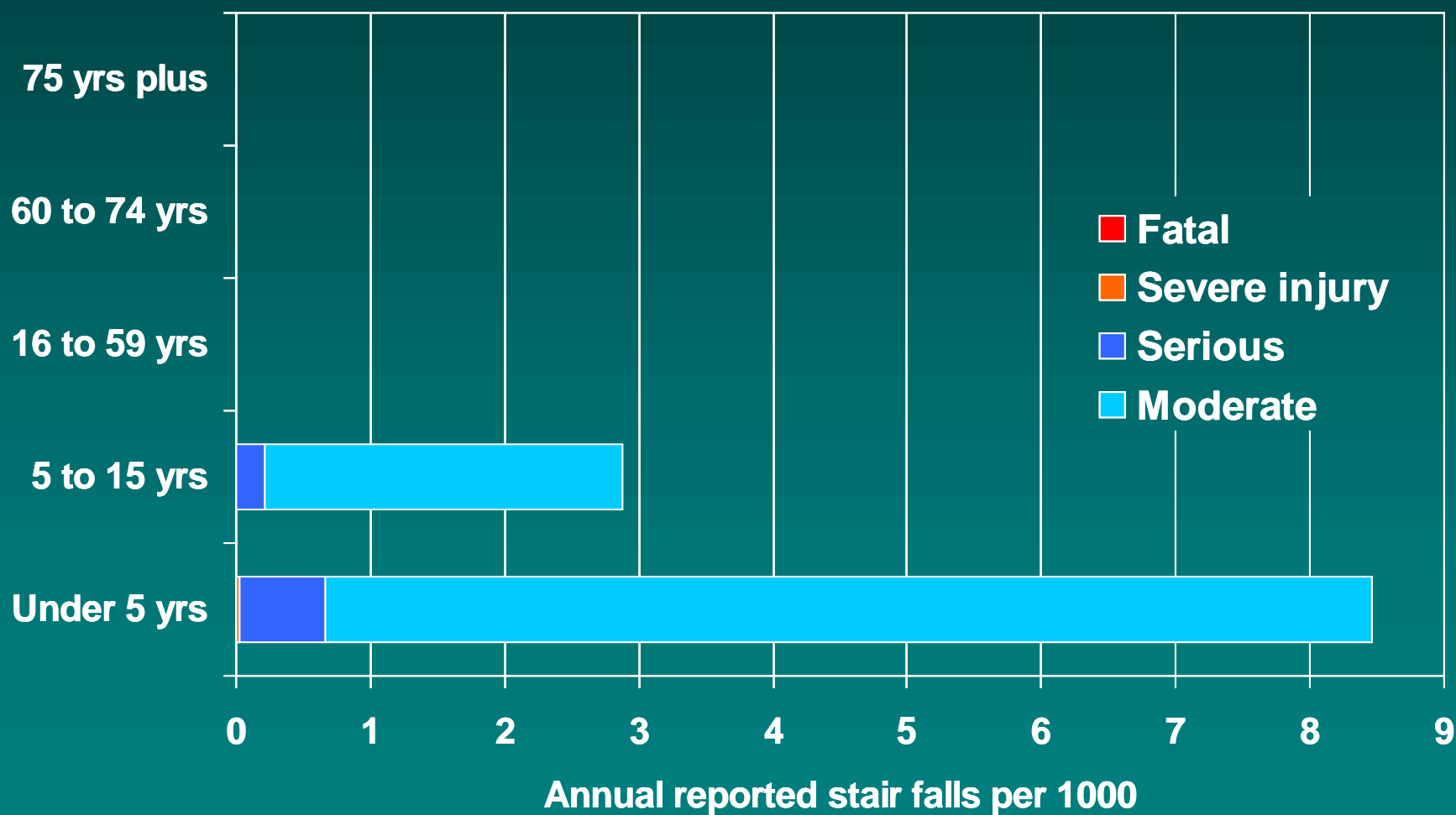
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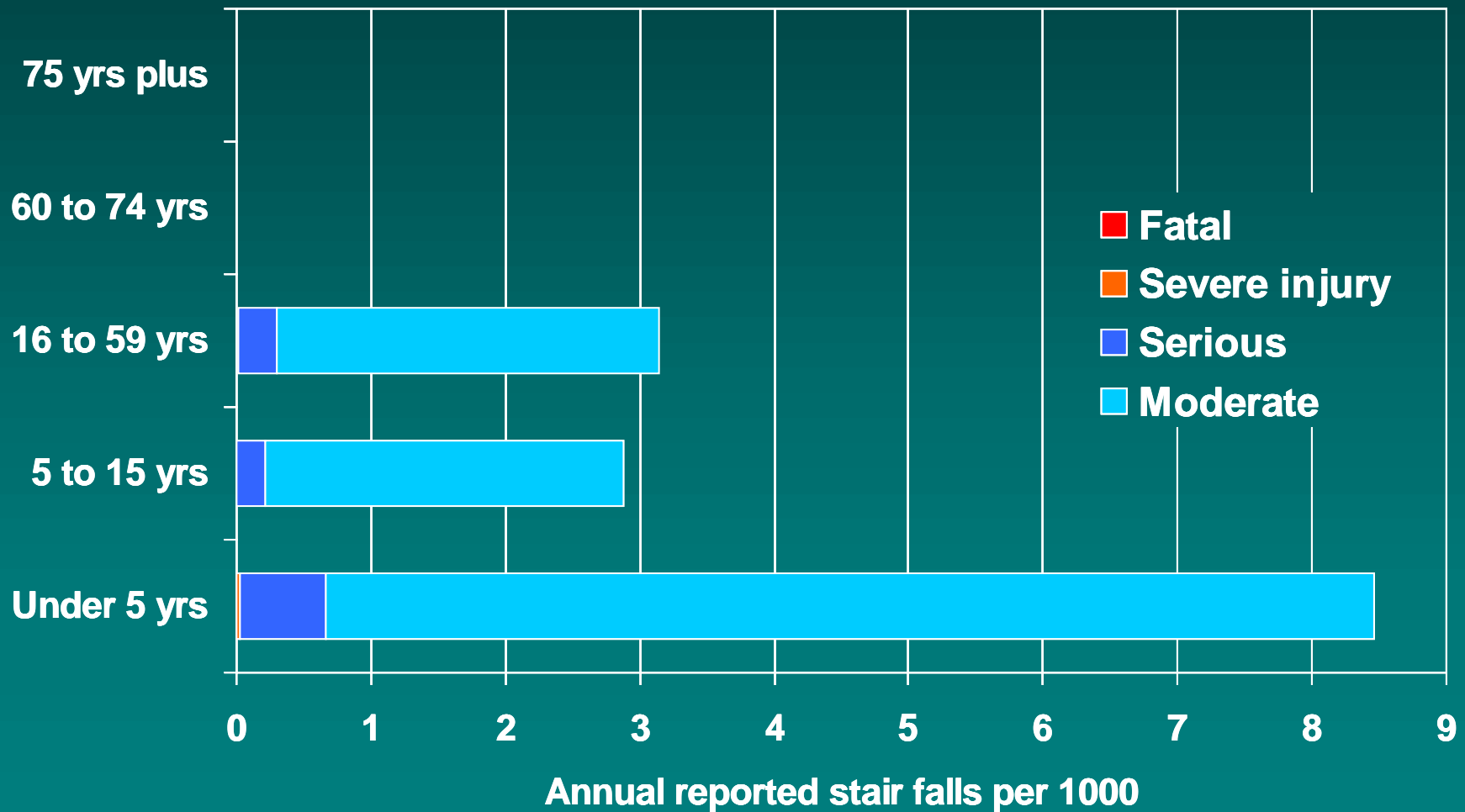
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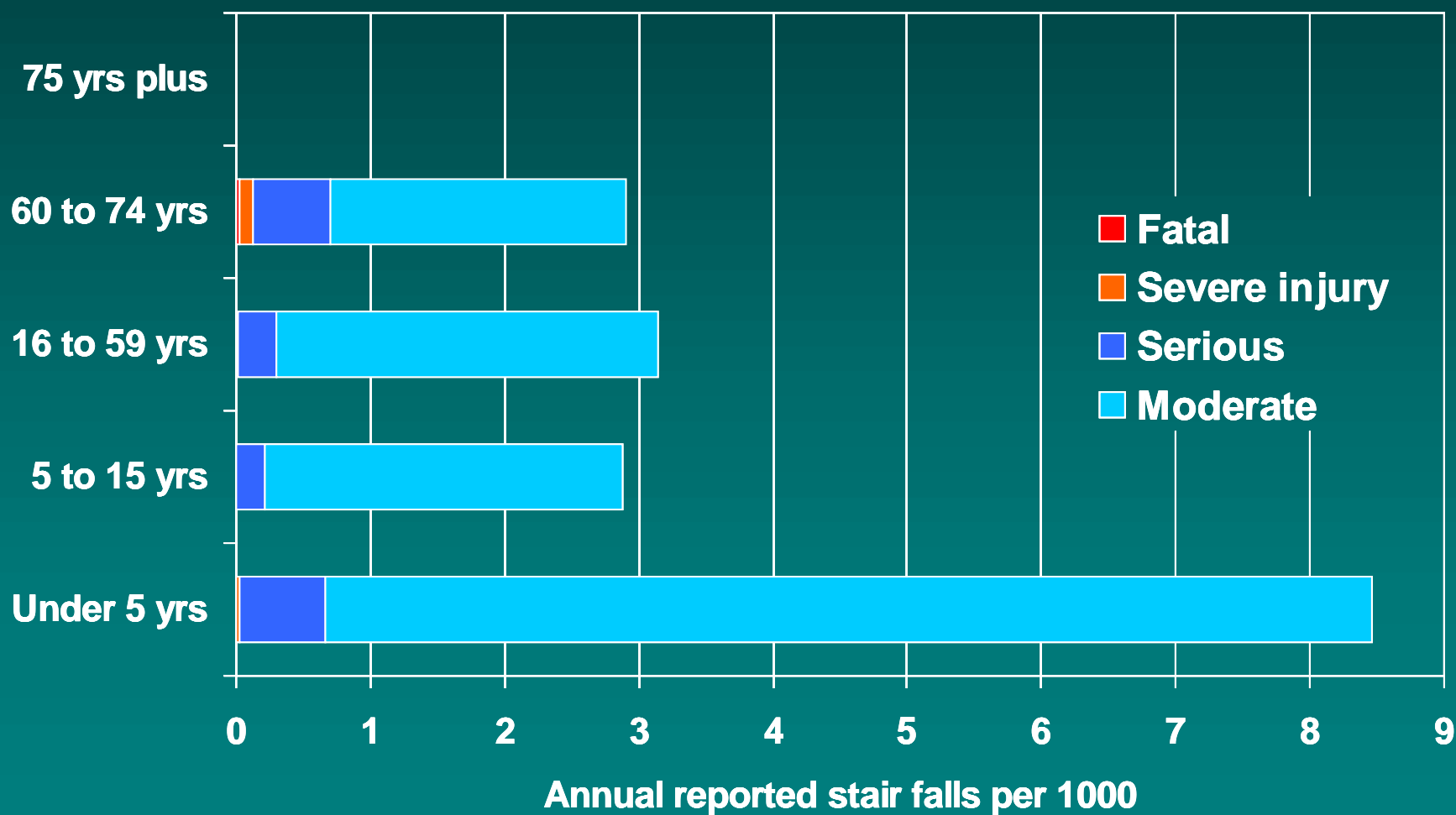
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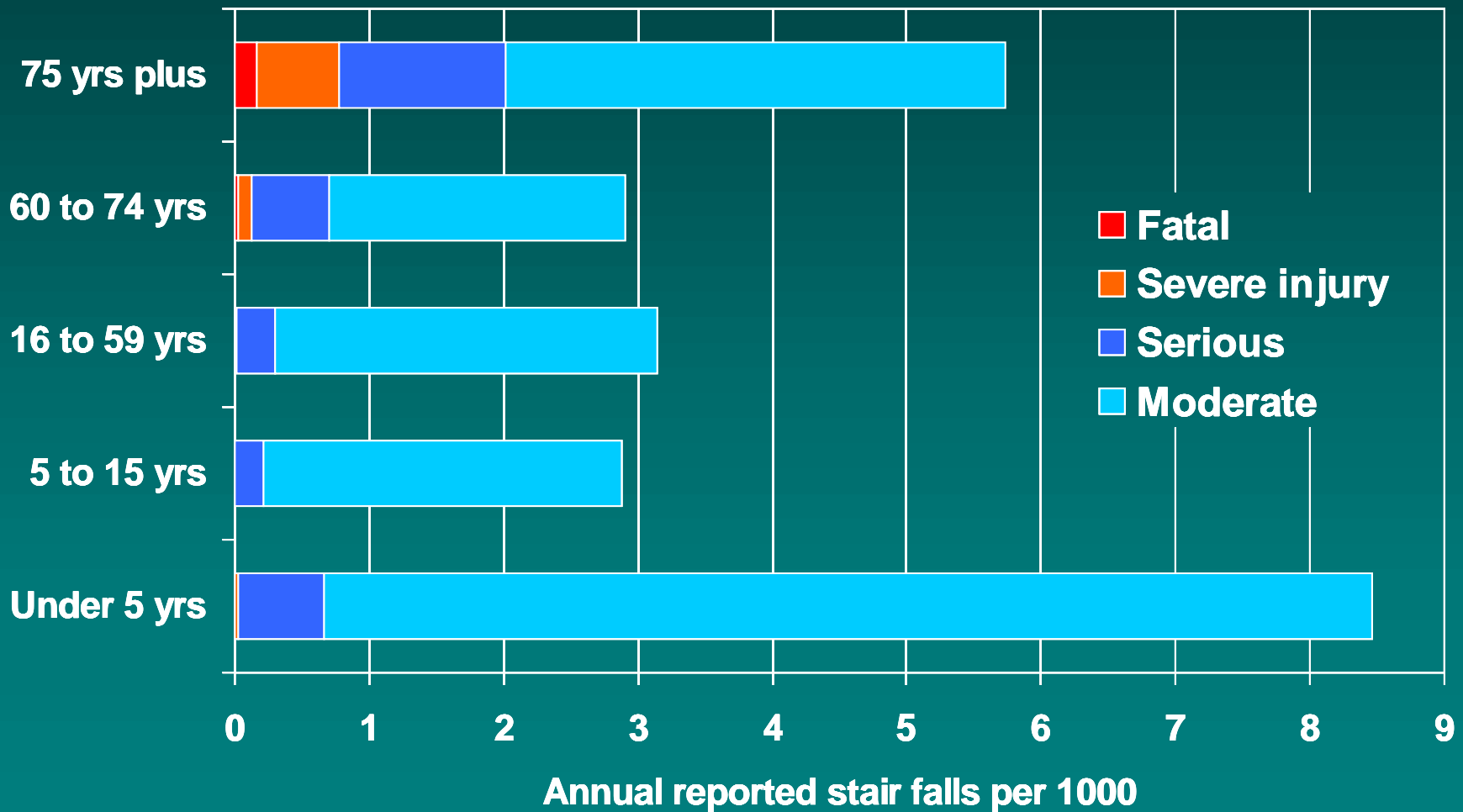
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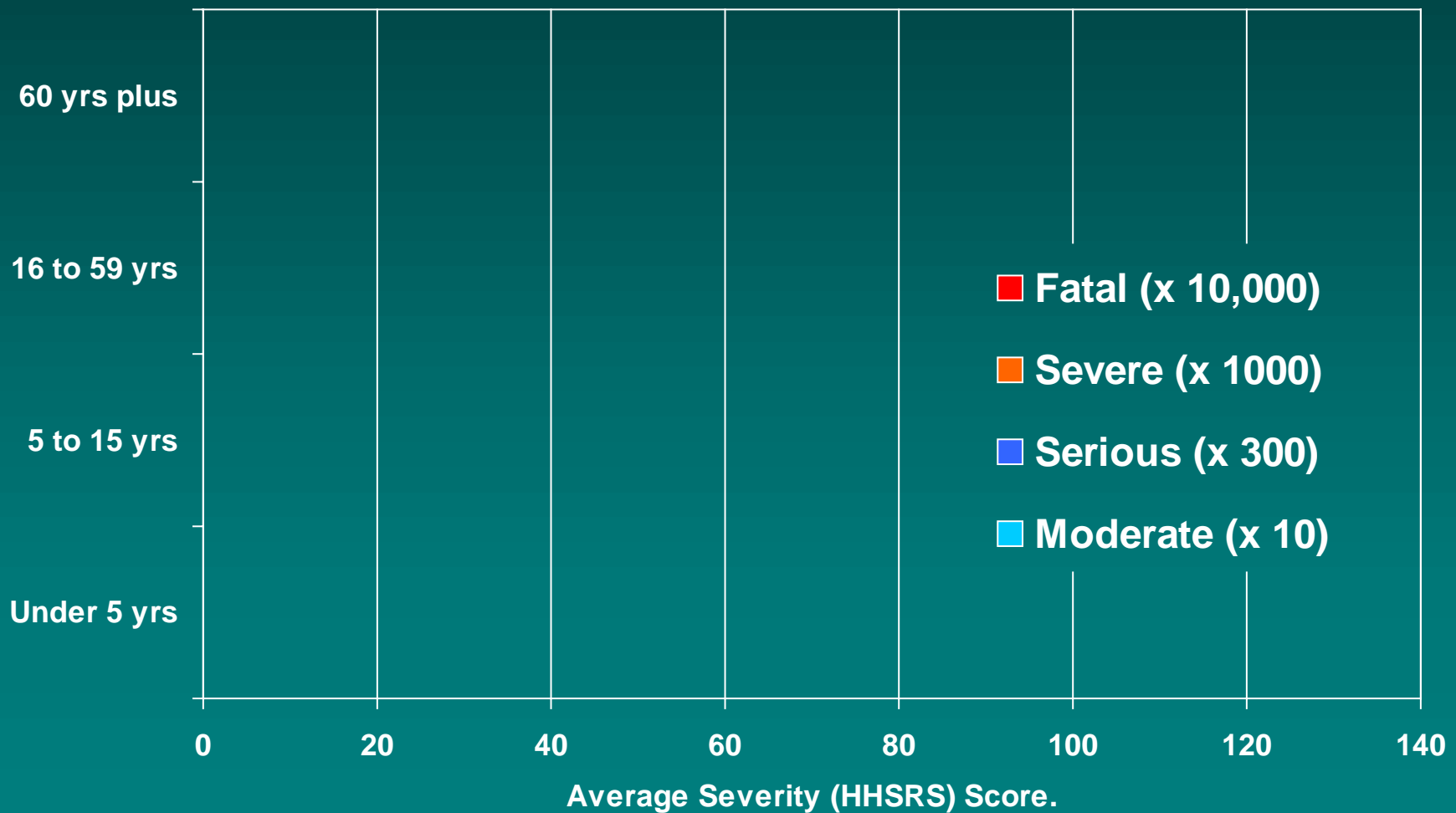


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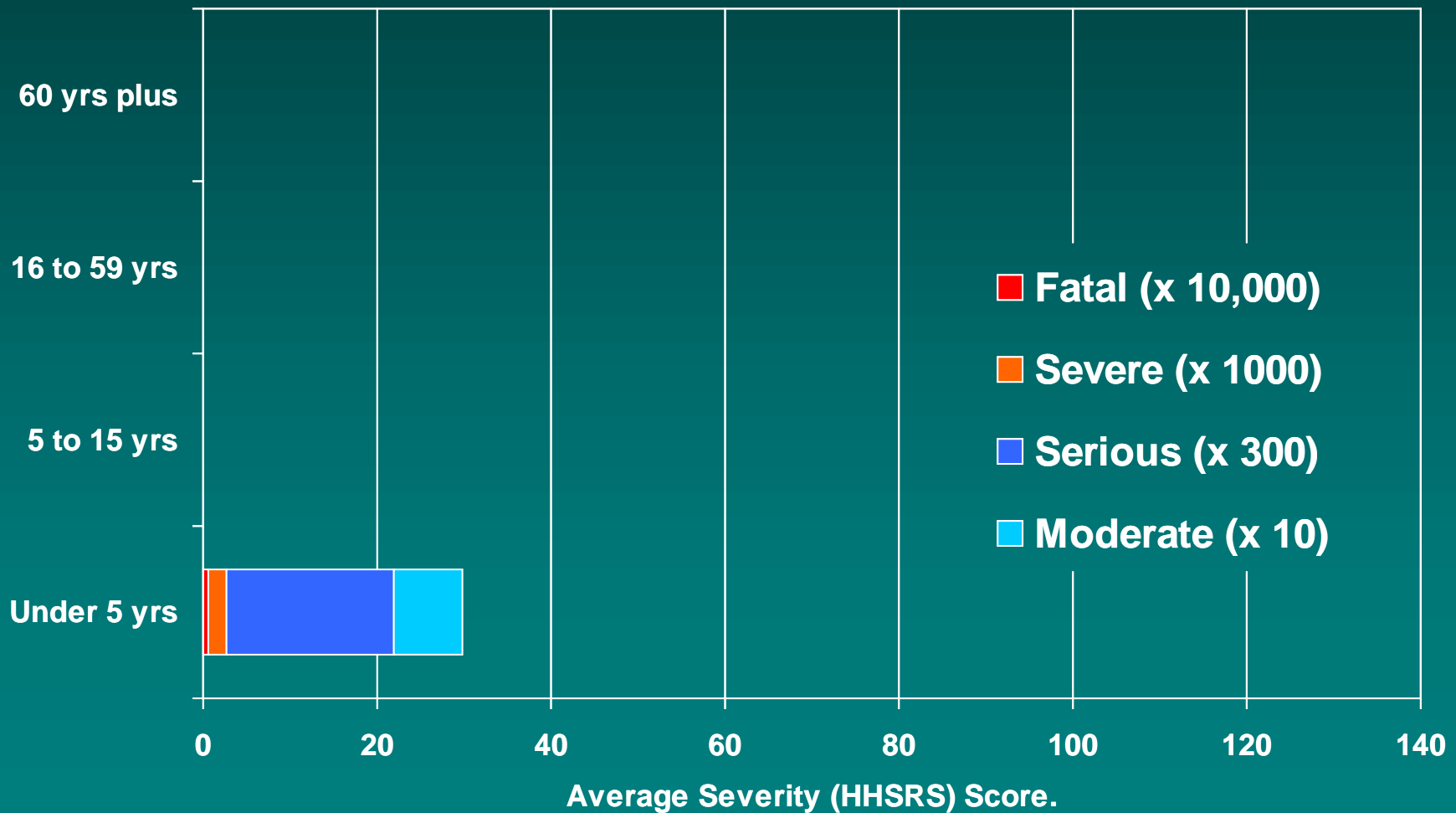


17. Average weighted score for severity of falls on all stairs/steps by age of victim

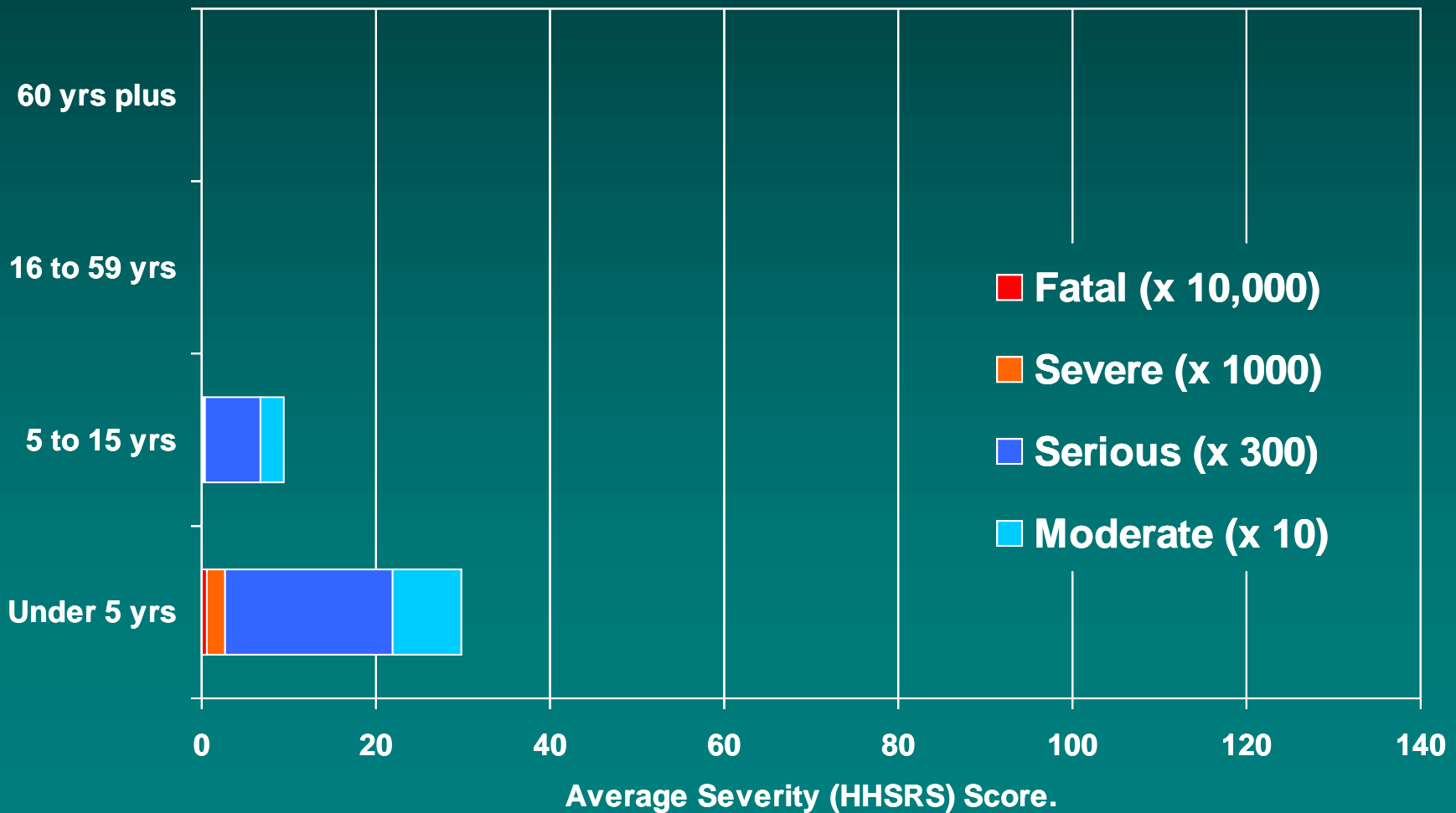
17. Average weighted score for severity of falls on all stairs/steps by age of victim



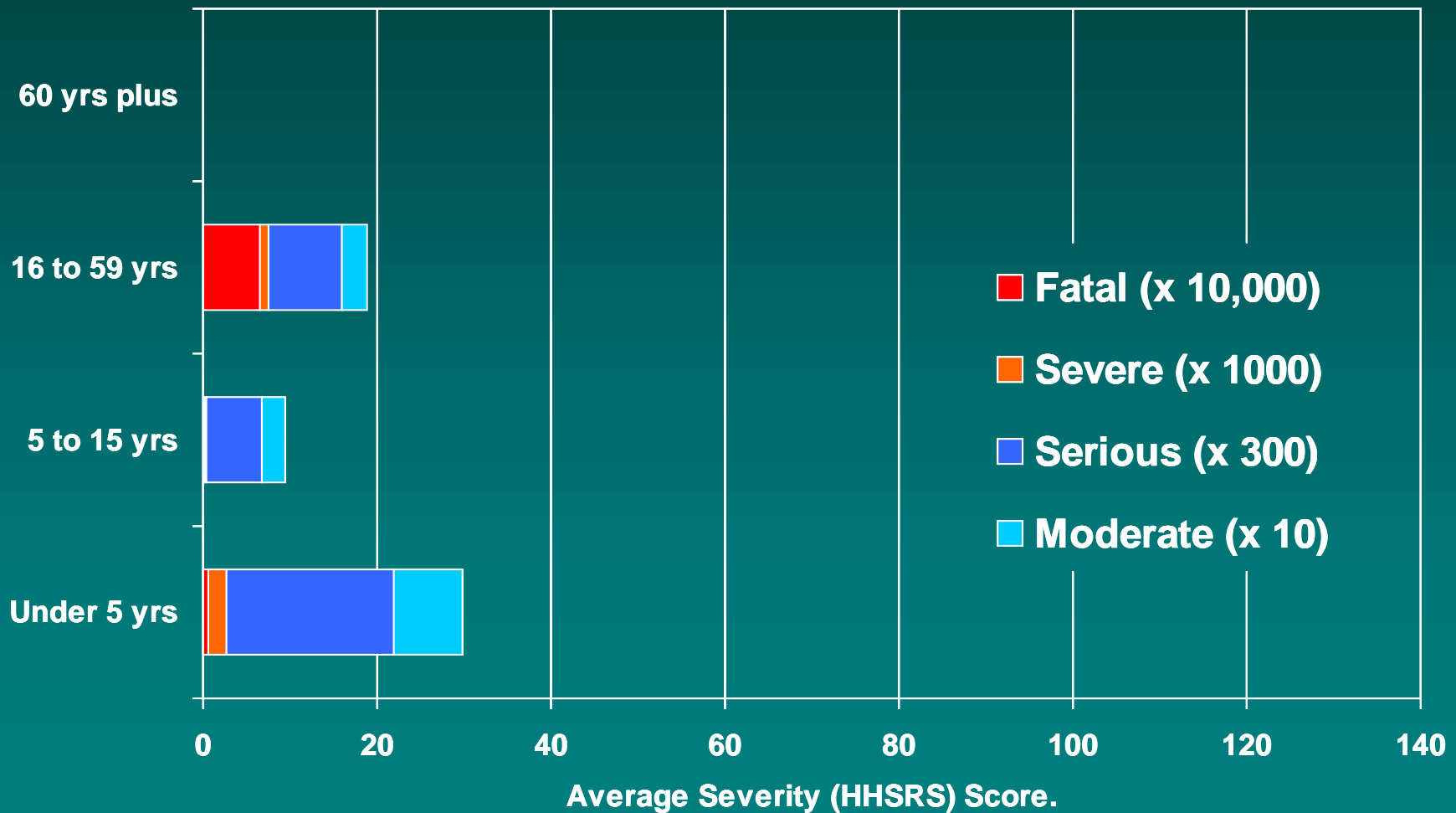
17. Average weighted score for severity of falls on all stairs/steps by age of victim



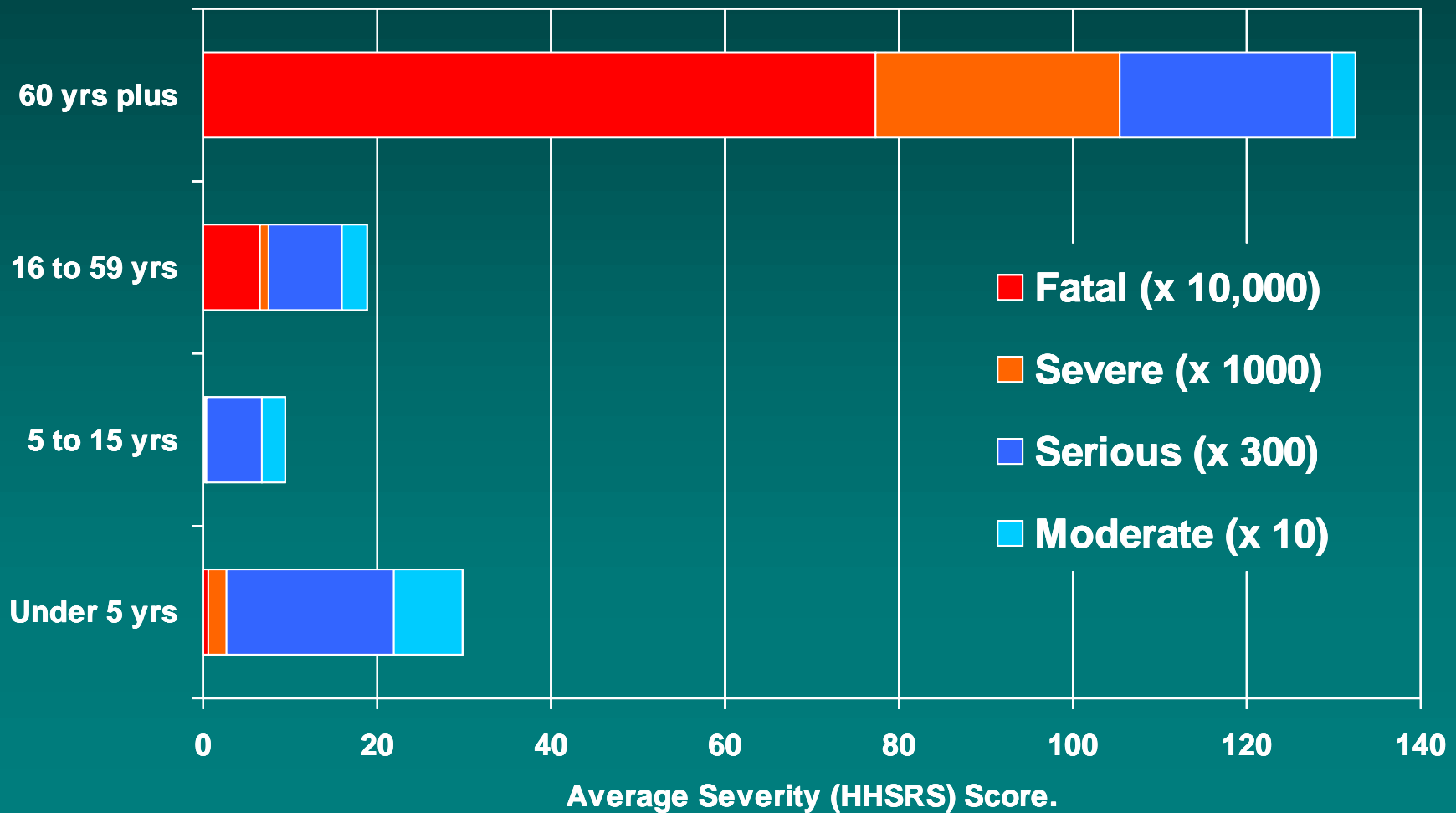
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18: Fall rate, health outcomes & av. HHSRS score for vulnerable groups by types of fall

Type of fall	Age of victim	Falls per 100,000	% fatal falls	% severe or serious	Av. HHSRS score
Falls on level	< 5 yrs	1,368.0	0.00	4.1	31
	60 yrs +	999.0	0.13	33.6	189
Fall on stairs	< 5 yrs	847.5	0.01	7.9	30
	60 yrs +	392.2	1.97	27.9	133
Falls in bath (+ & - drowning)	< 5 yrs	36.7	1.25	3.5	5.3
	60 yrs +	24.6	1.85	15.2	6.4
Falls from windows etc	< 5 yrs	59.1	0.19	12.3	4.5
	60 yrs +	8.8	5.28	19.7	5.4

19. Rates, health outcomes & av. HHSRS scores where accidents or fatalities frequent

Type of hazard	Age of victim	Accidents per 100 k	% fatal accident	% severe or serious	Av. HHSRS score
Entrapment & collision	< 5 yrs	2,564.1	0.00	4.1	57
	60 yrs +	489.2	0.01	13.4	32
Hot surfaces & materials	< 5 yrs	550.7	0.01	20.4	45
	60 yrs +	41.7	0.24	22.2	5
Fire hazards	< 5 yrs	30.6	1.96	46.1	11
	60 yrs +	21.0	6.96	29.9	17
Explosion hazards	< 5 yrs	1.5	4.33	29.4	0.8
	60 yrs +	1.3	21.5	22.0	2.9

20. Rates, health outcomes & av. HHSRS scores for infrequent accidents

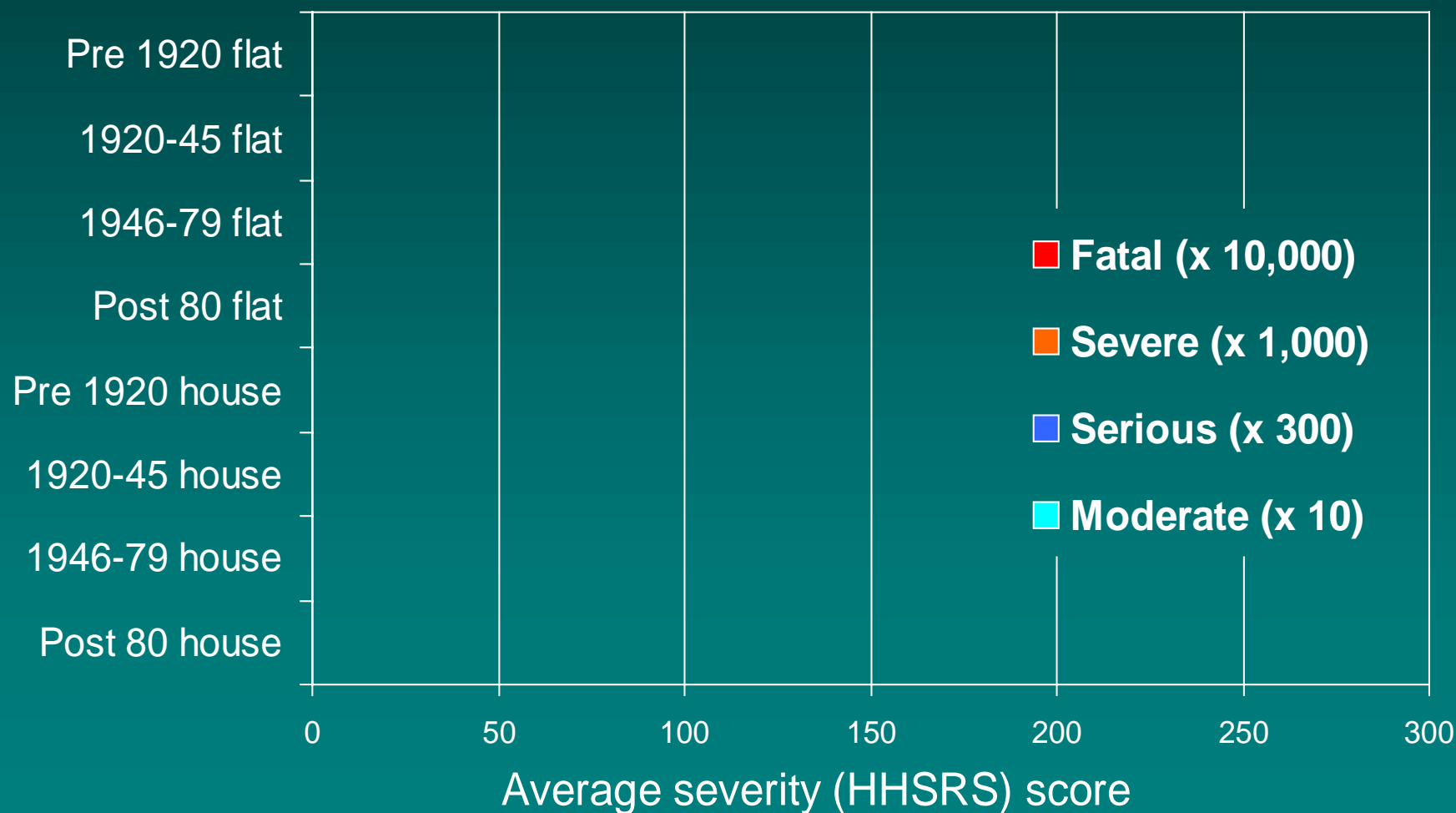
Type of hazard	Age of victim	Accidents per 100 k	% fatal accident	% severe or serious	Av. HHSRS score
Electrical hazards	< 5 yrs	5.9	0.54	61.0	1.7
	60 yrs +	1.1	3.19	71.7	0.6
Structural failure	< 5 yrs	22.0	0.34	7.4	1.4
	60 yrs +	6.6	0.91	15.8	1.0
Uncombusted fuel gas	< 5 yrs	4.8	0.45	49.8	0.9
	60 yrs +	0.5	6.92	46.5	0.5
Poor ergonomics	16-59 yr	9.1	0.00	8.8	0.3
	60 yrs +	7.7	0.00	20.3	0.6

21. Fall rate, health outcomes & av. HHSRS score for persons most affected by types of fall

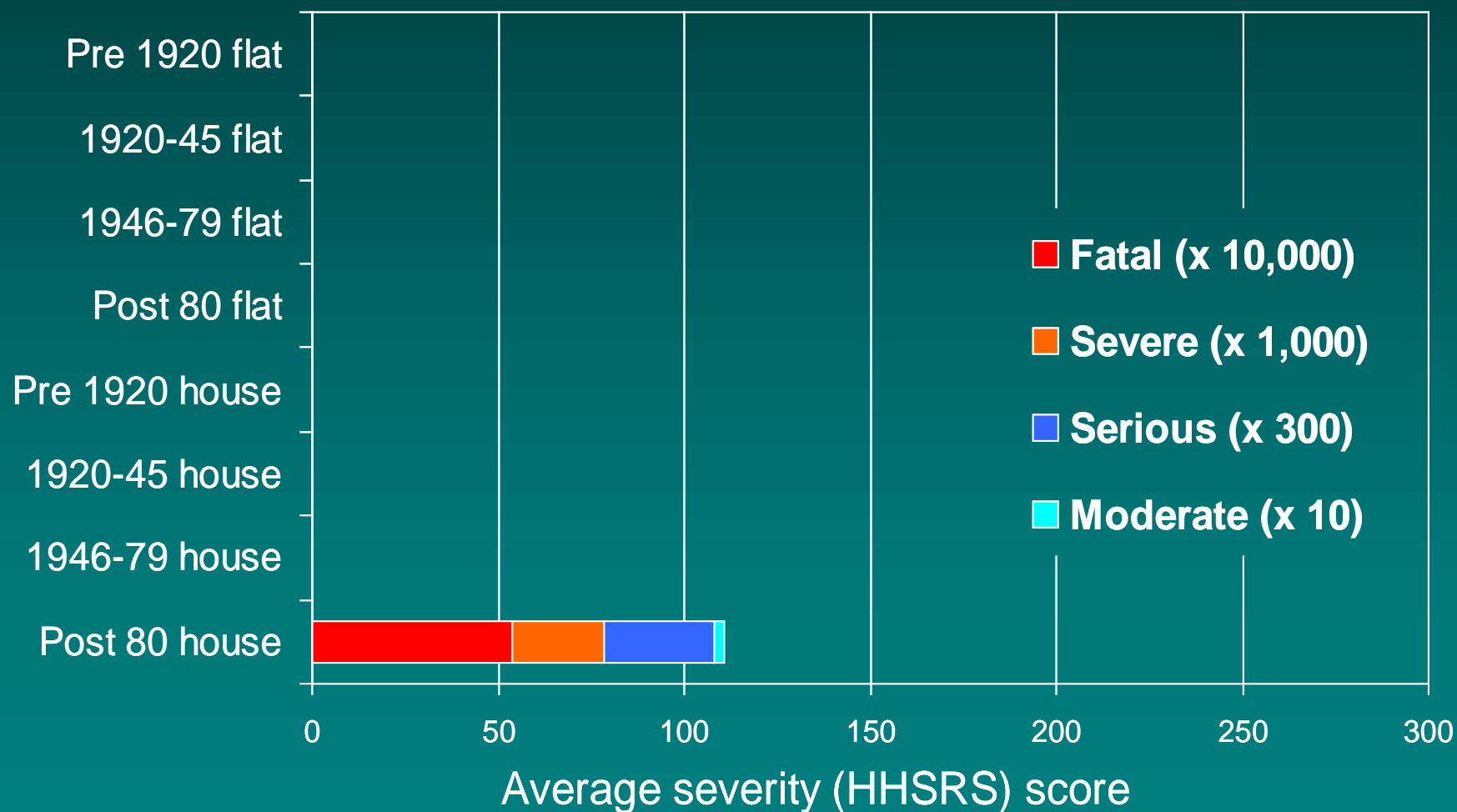
Type of fall	Age & type of home	Falls per 1000	% fatal falls	% severe & serious	HHSRS Av. score
Falls on level	1946-79 house	6.60	0.18	42.0	161
	Pre 1920 flat	11.52	0.10	32.9	258
Fall on stairs	1980 + flat	2.44	2.61	24.6	93
	Pre 1920 flat	4.67	3.87	27.3	249
Falls in bath (+&- drowning)	1980 + flat	0.67	0.00	9.1	2
	1920 - 45 flat	1.47	4.72	31.8	33
Falls between levels	1980 + house	0.47	0.00	16.7	2.7
	1946-79 house	0.79	0.24	13.4	7.5

22. STAIRS: Average HHSRS scores for falls on stairs/ steps by persons > 60 yrs by housing type

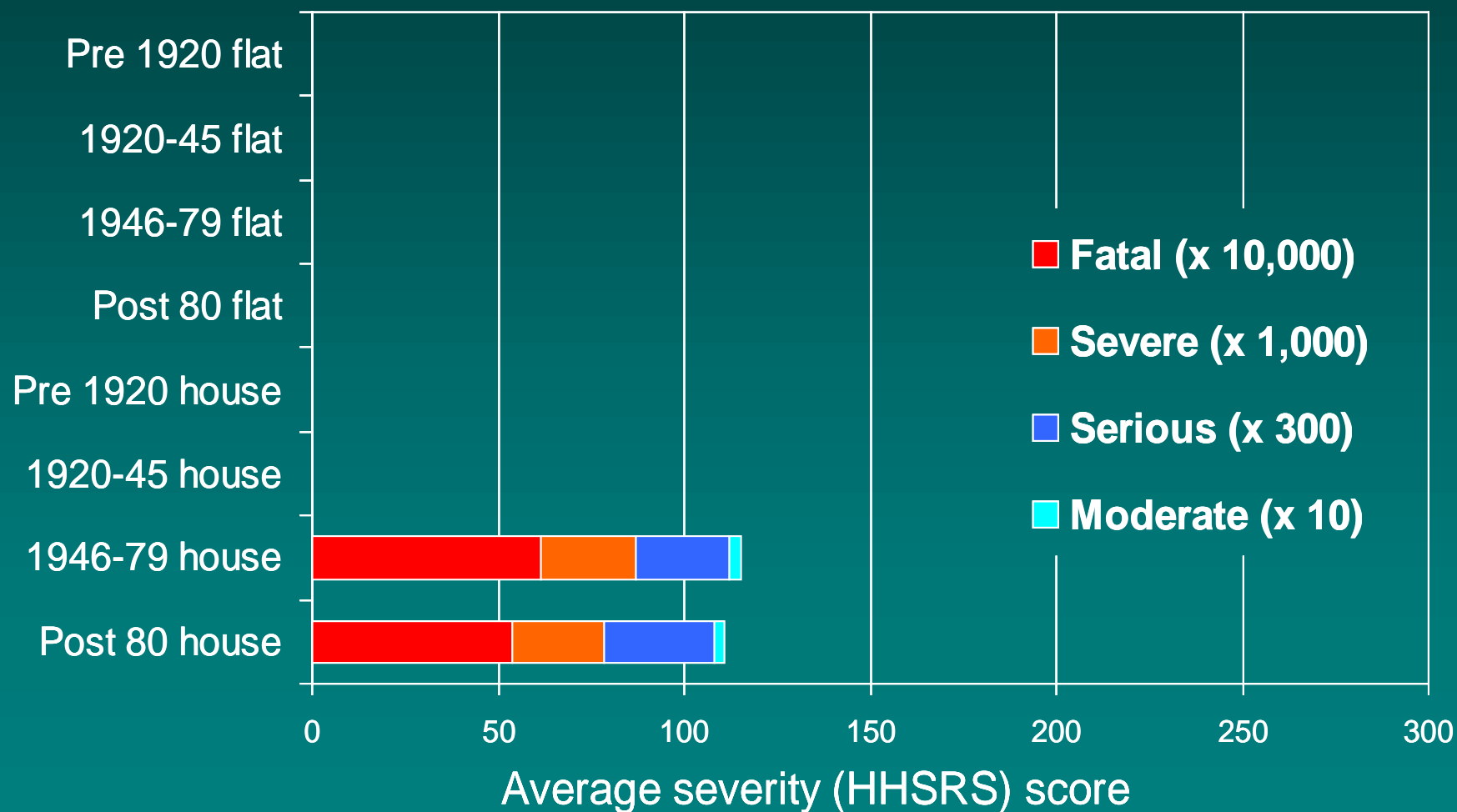
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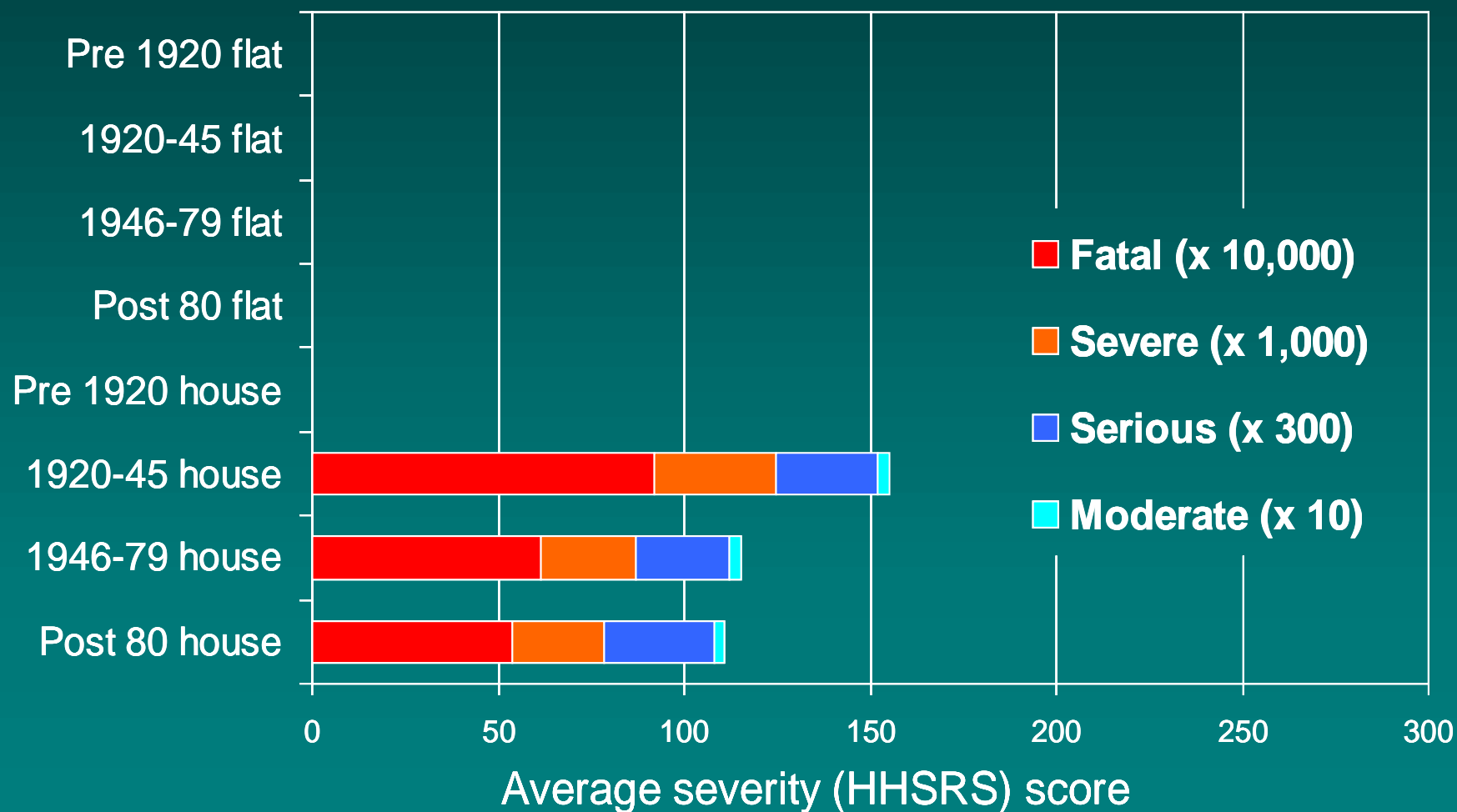
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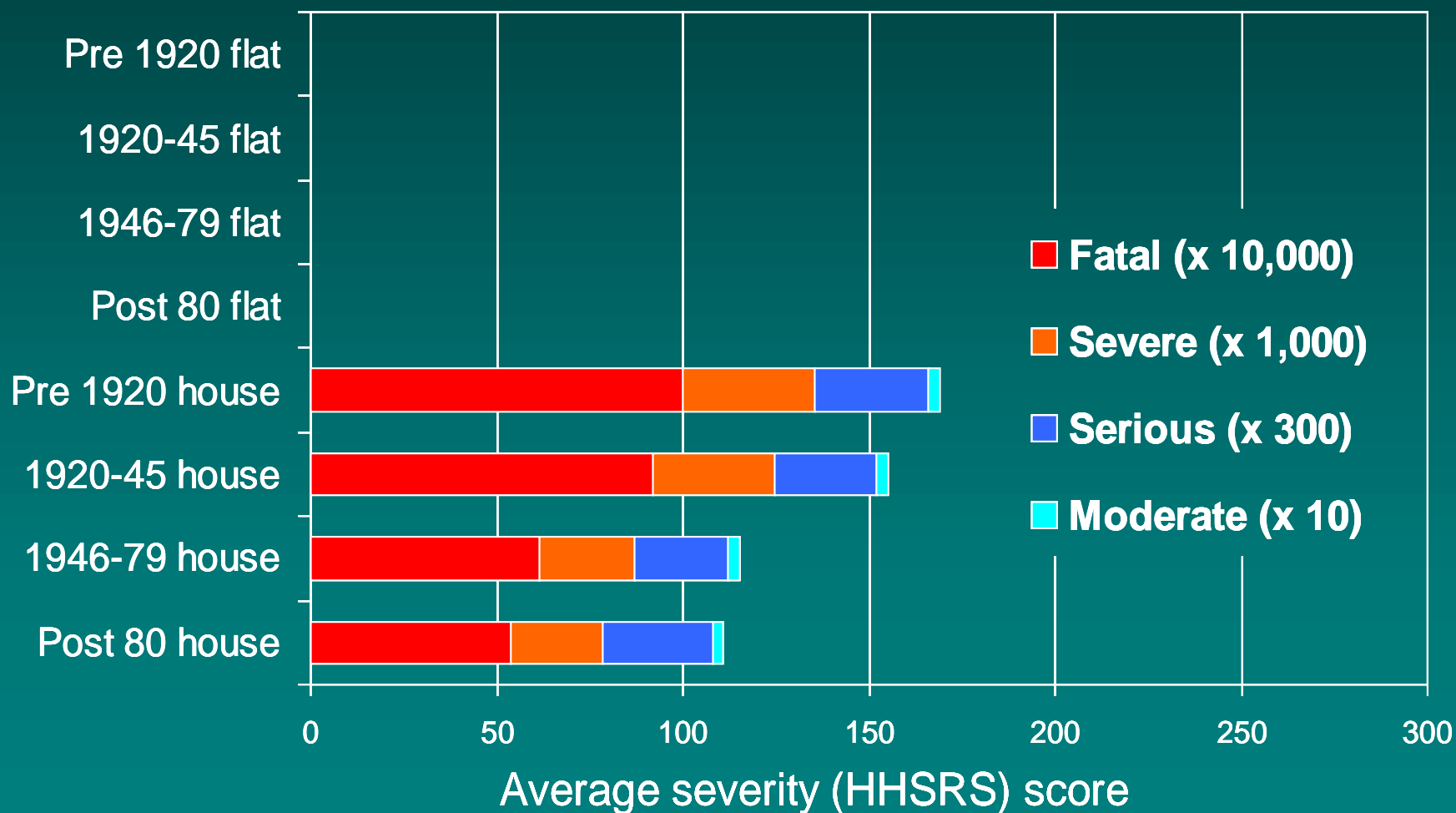
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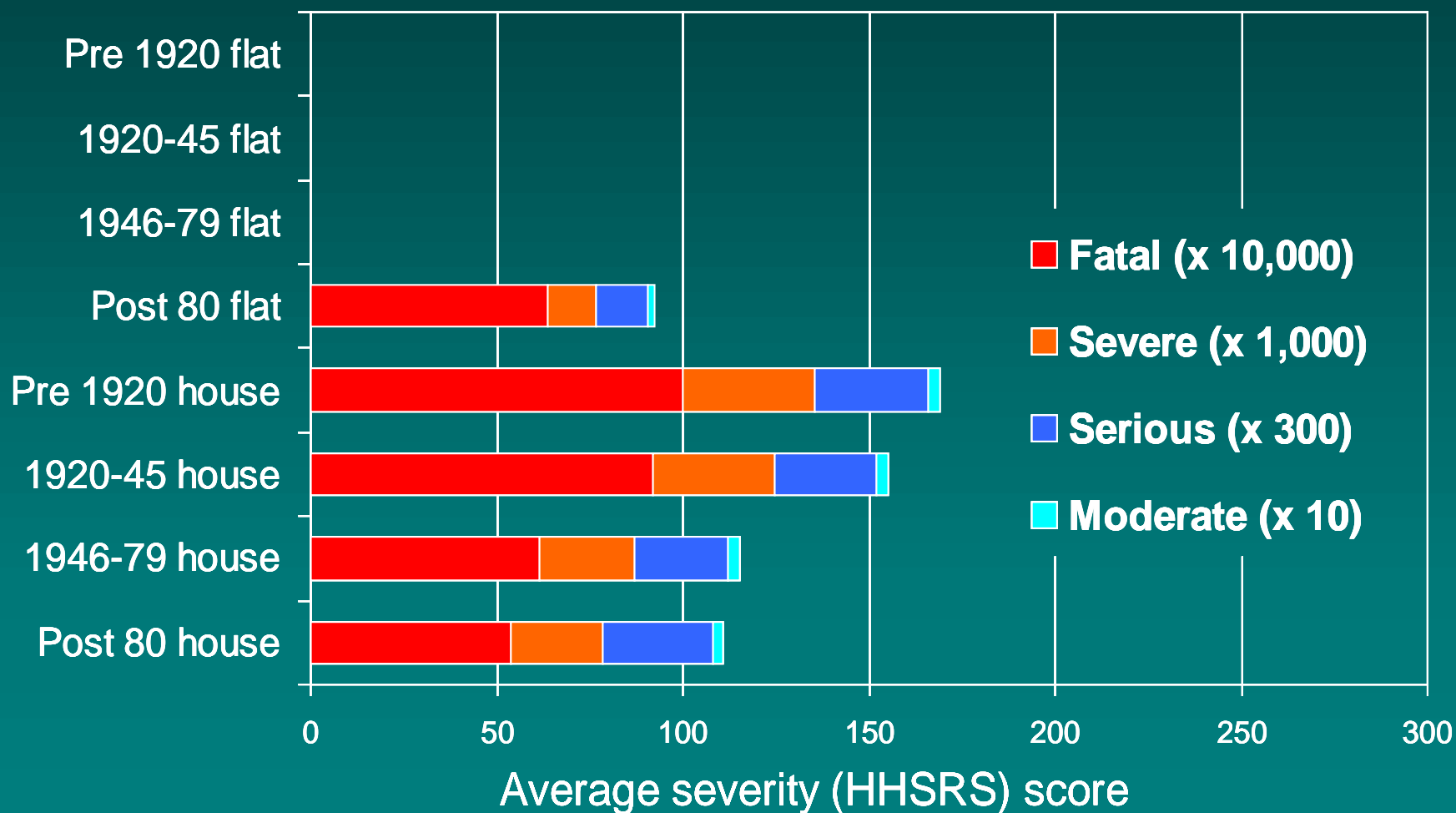
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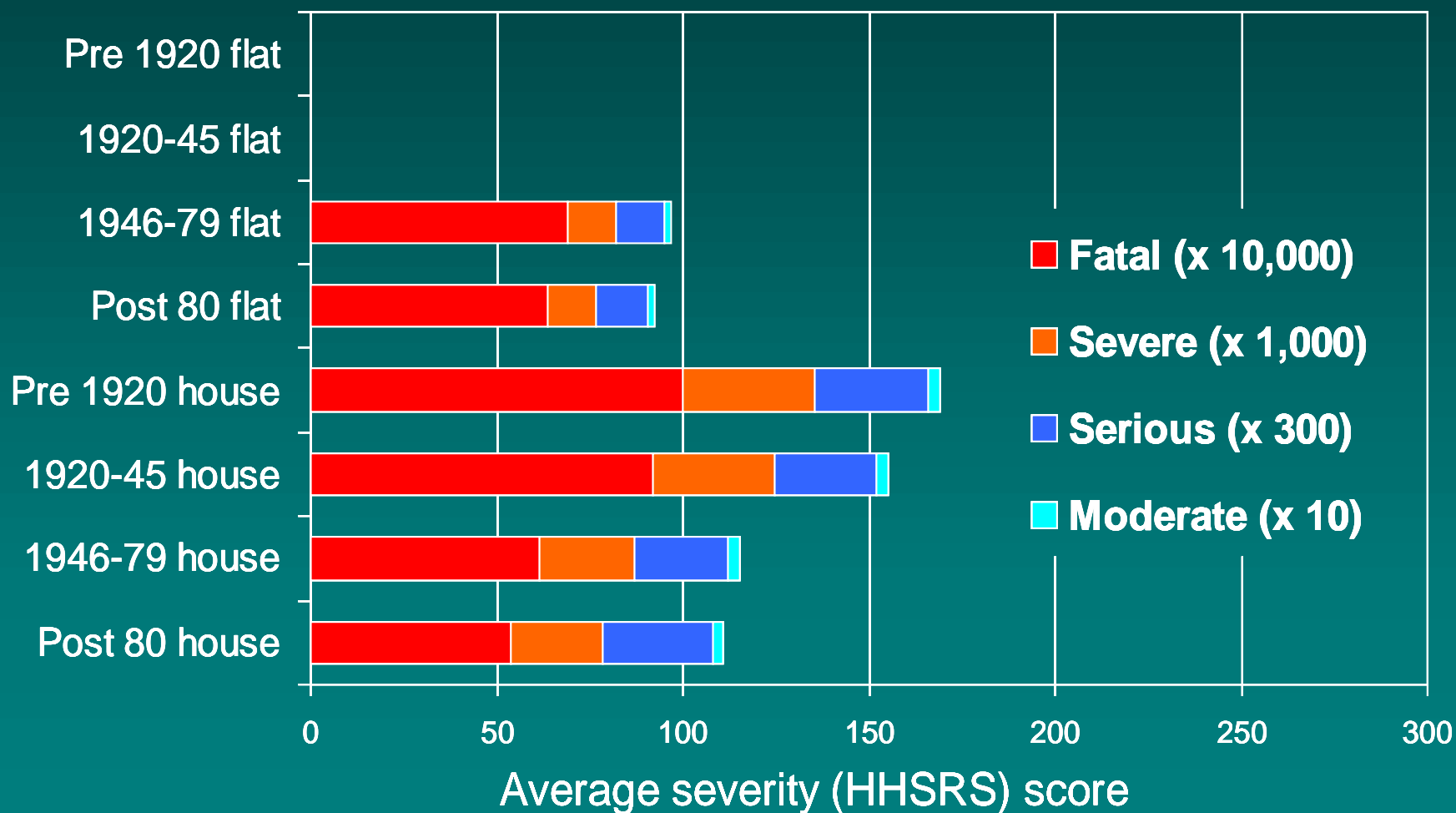
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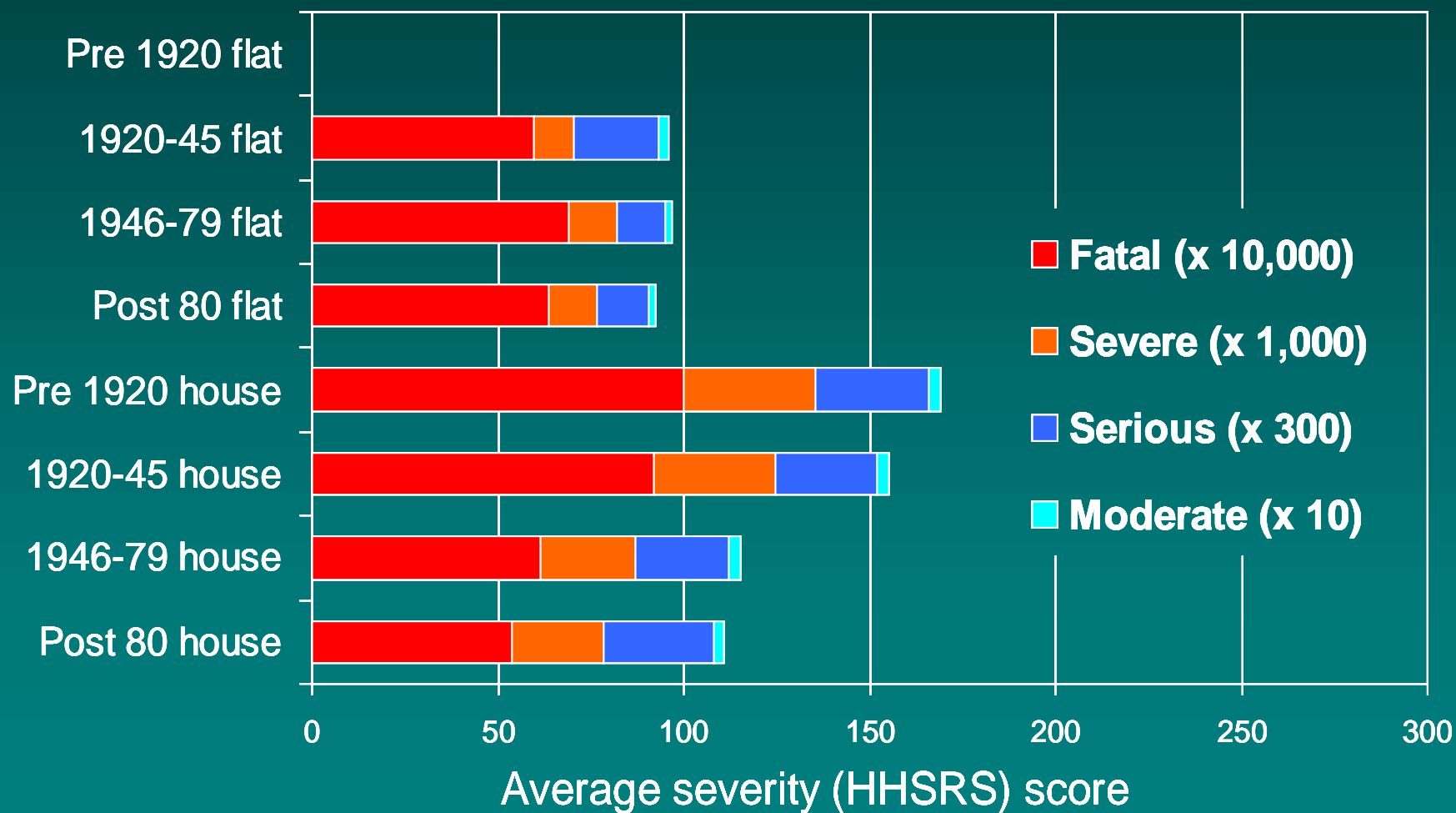
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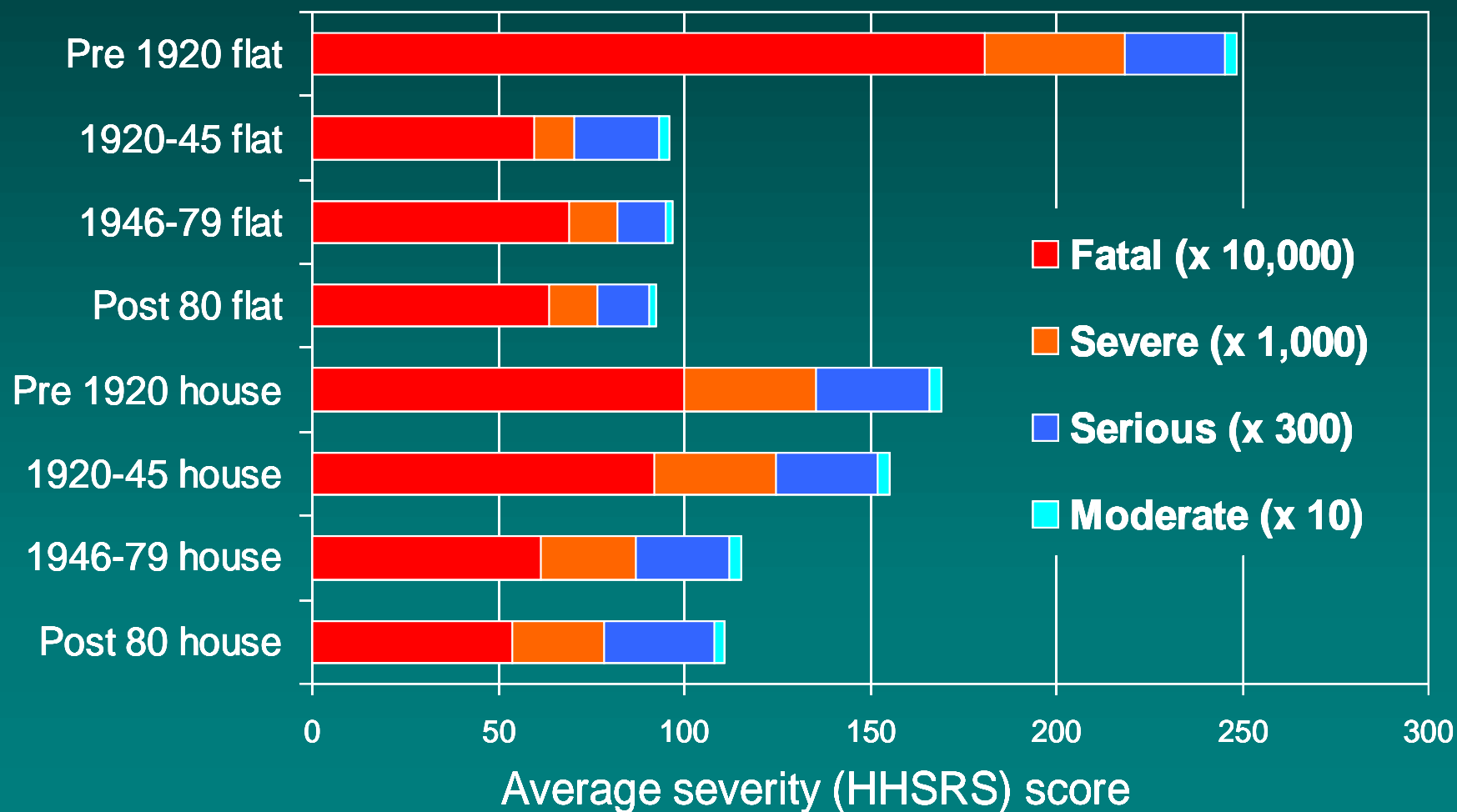
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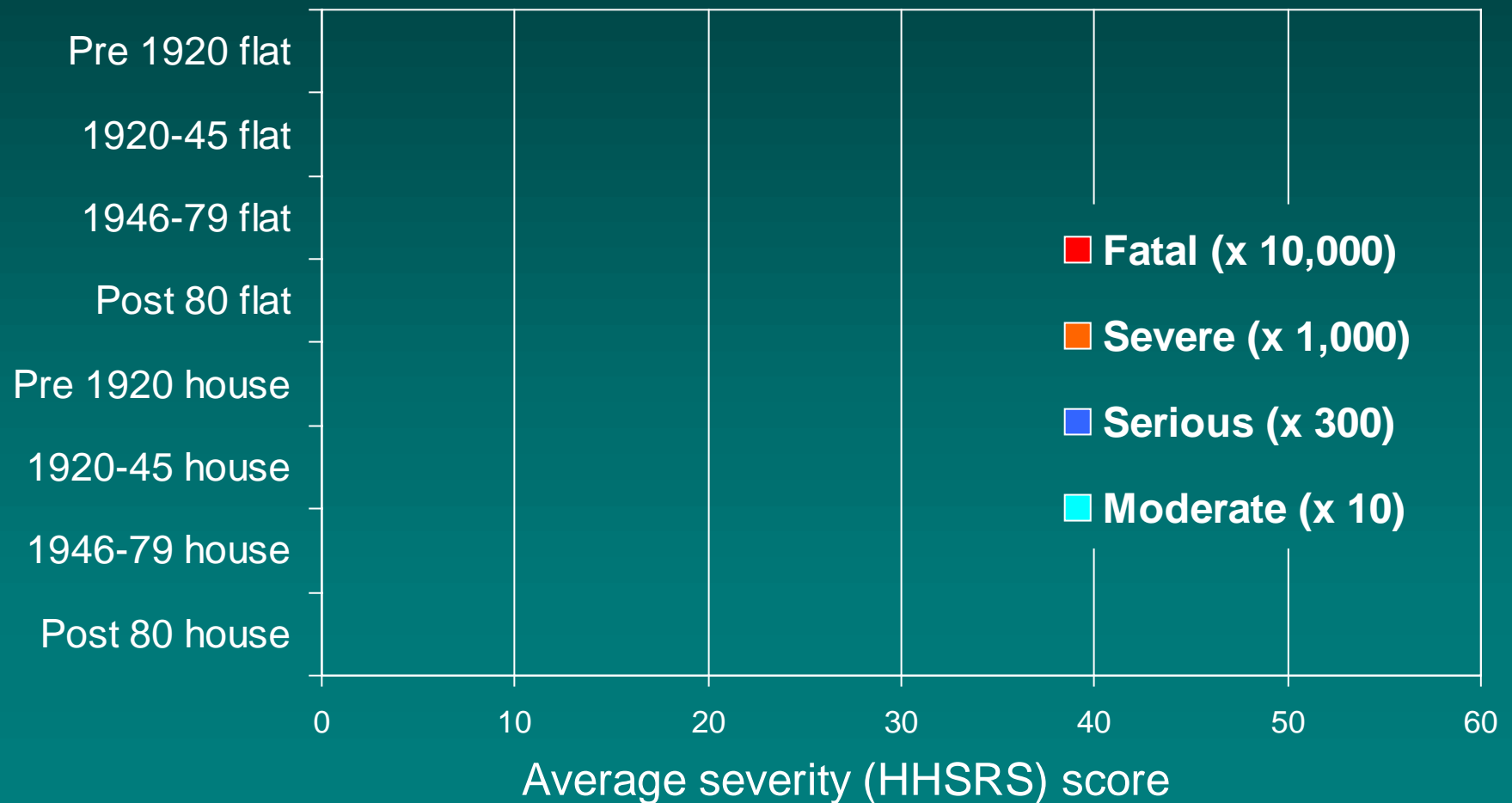


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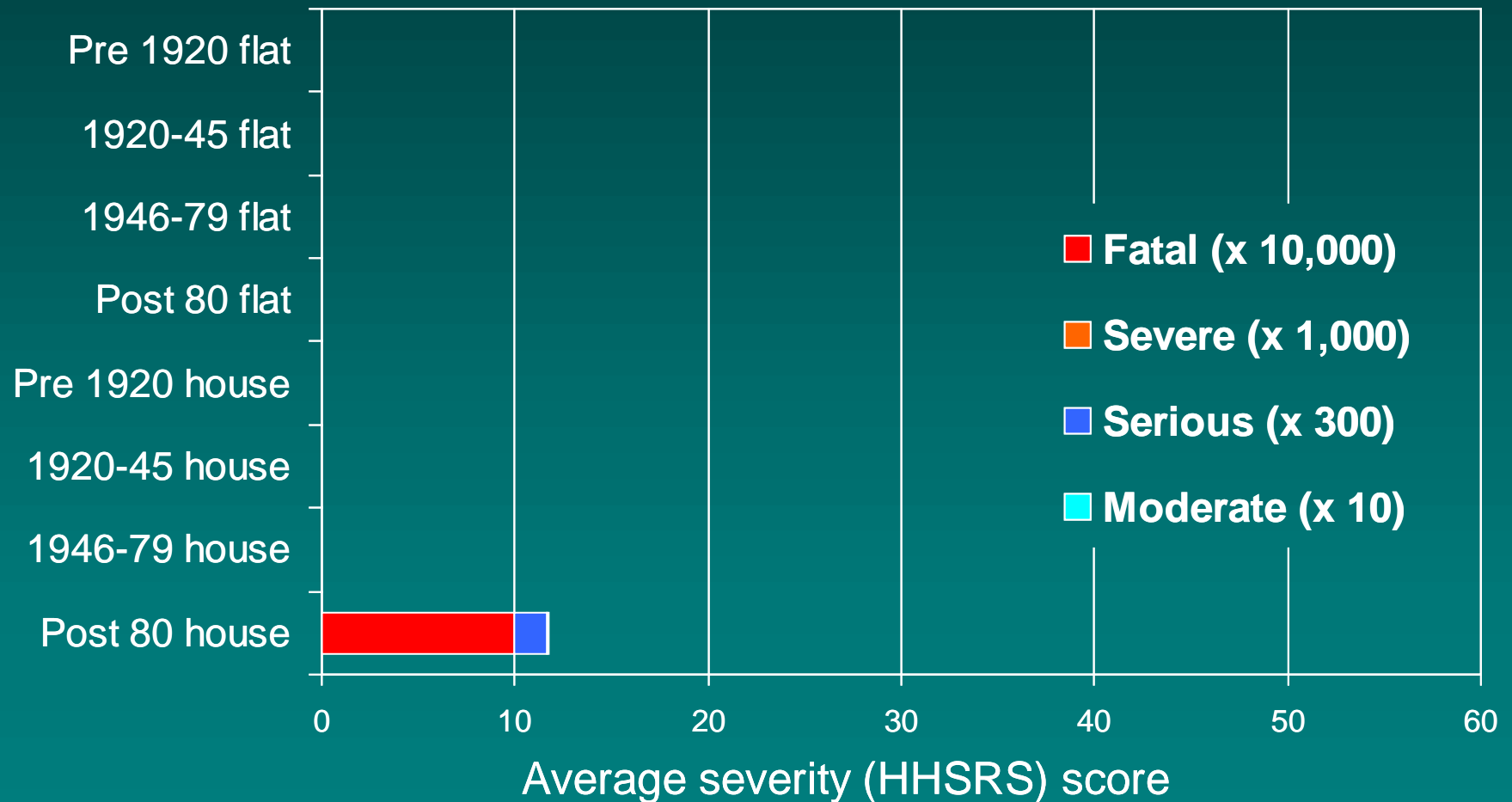


23. FIRE: Average HHSRS scores for fire hazards for persons > 60 yrs by housing type

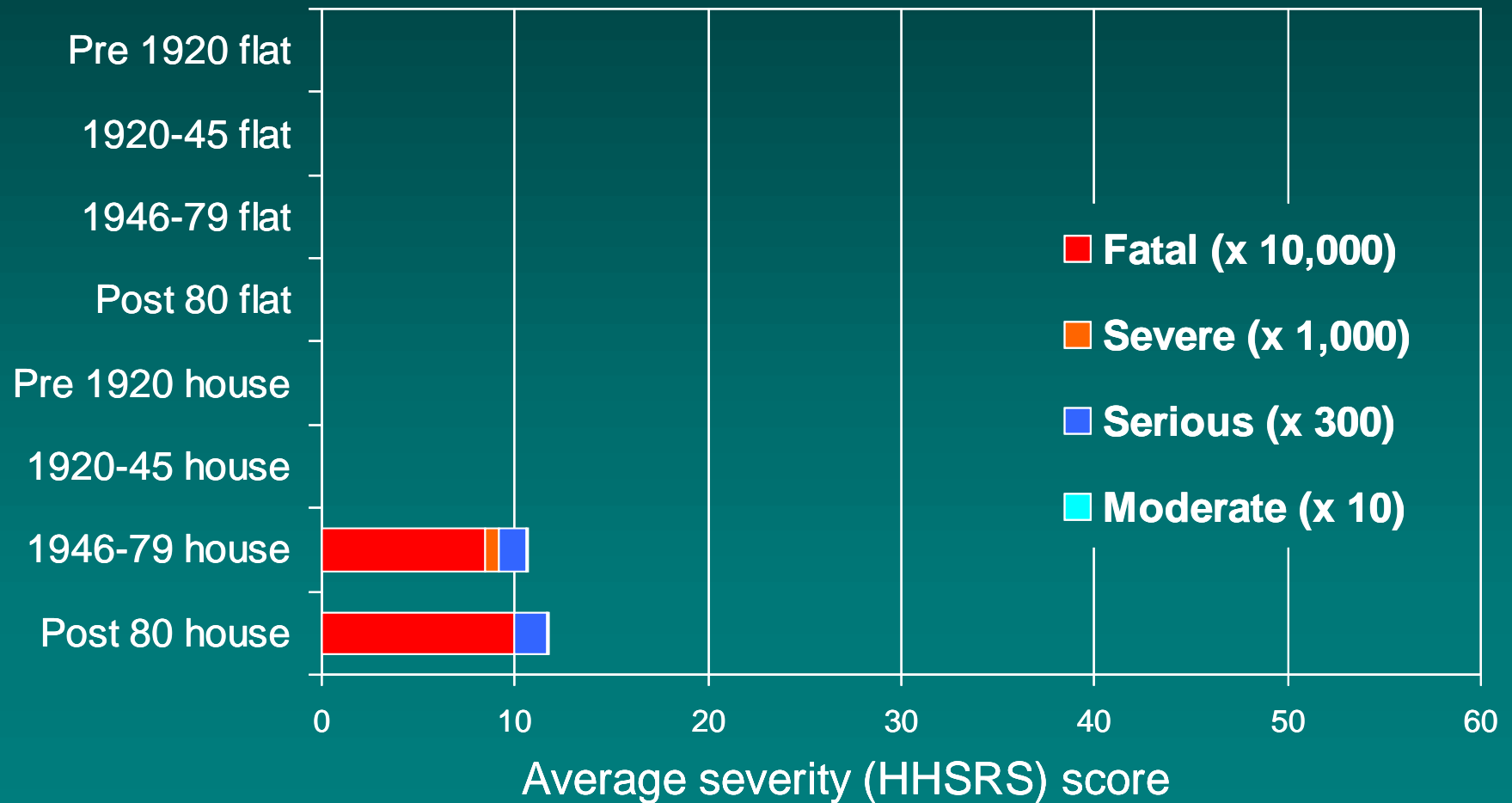
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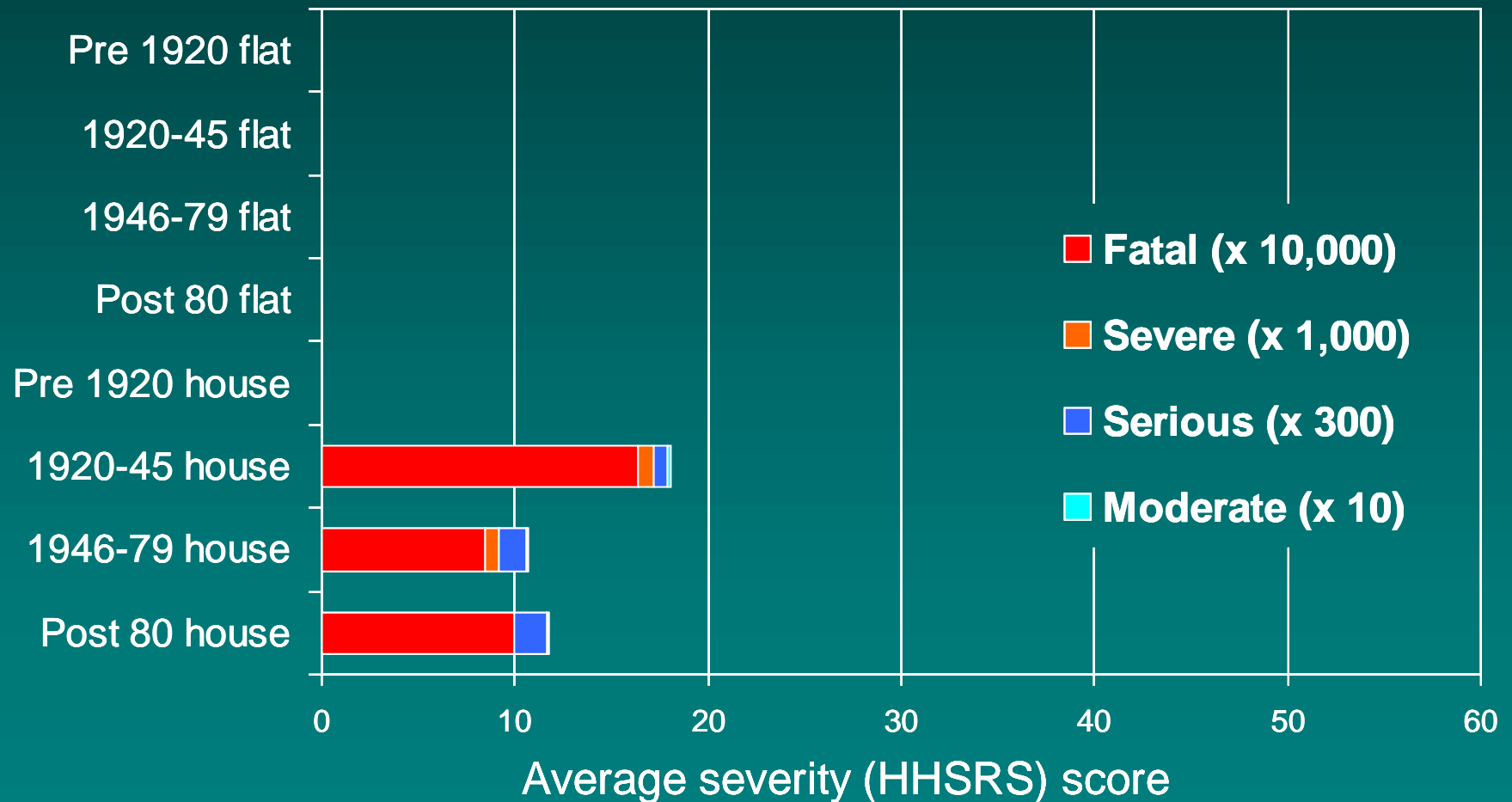
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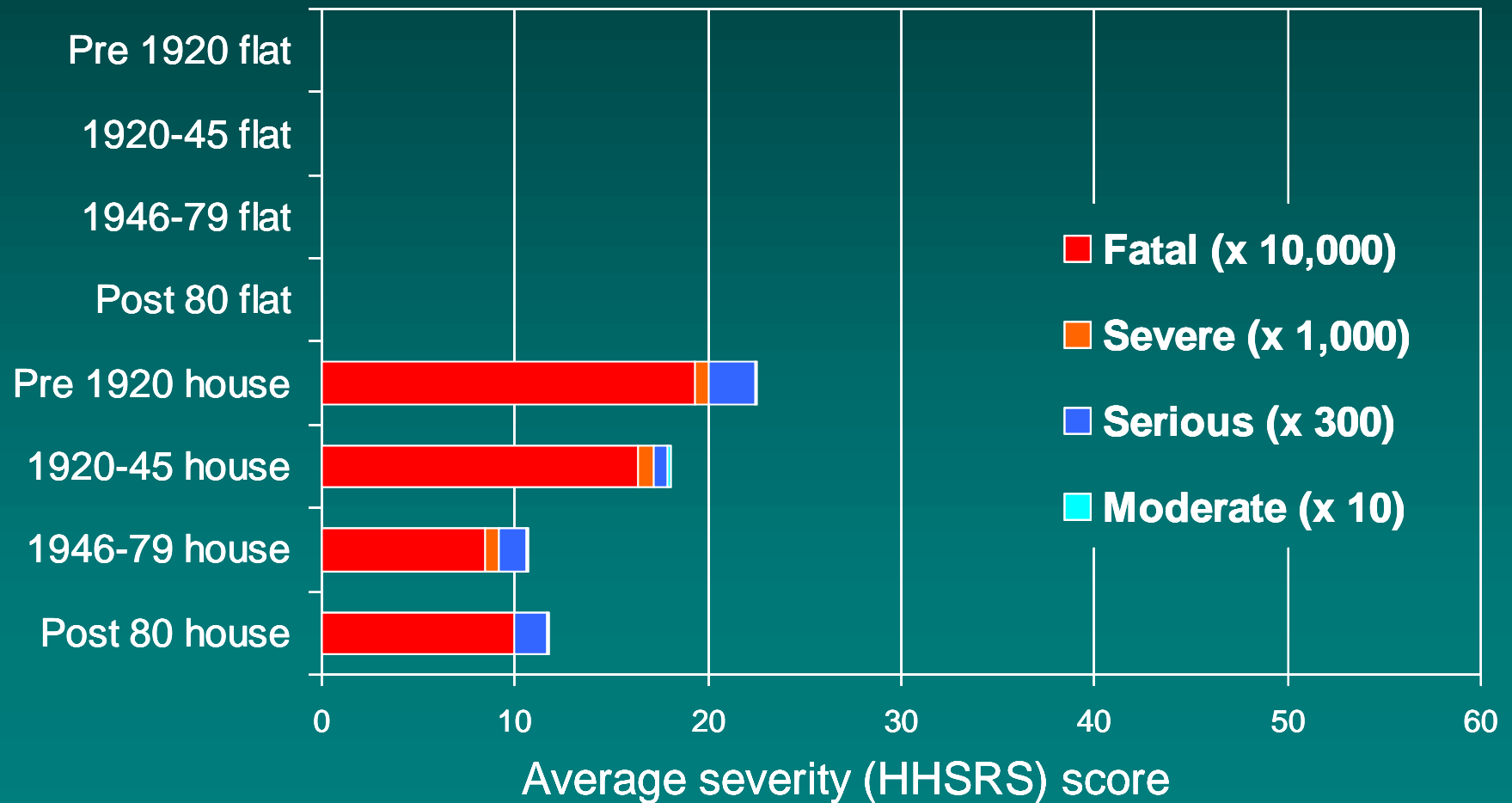
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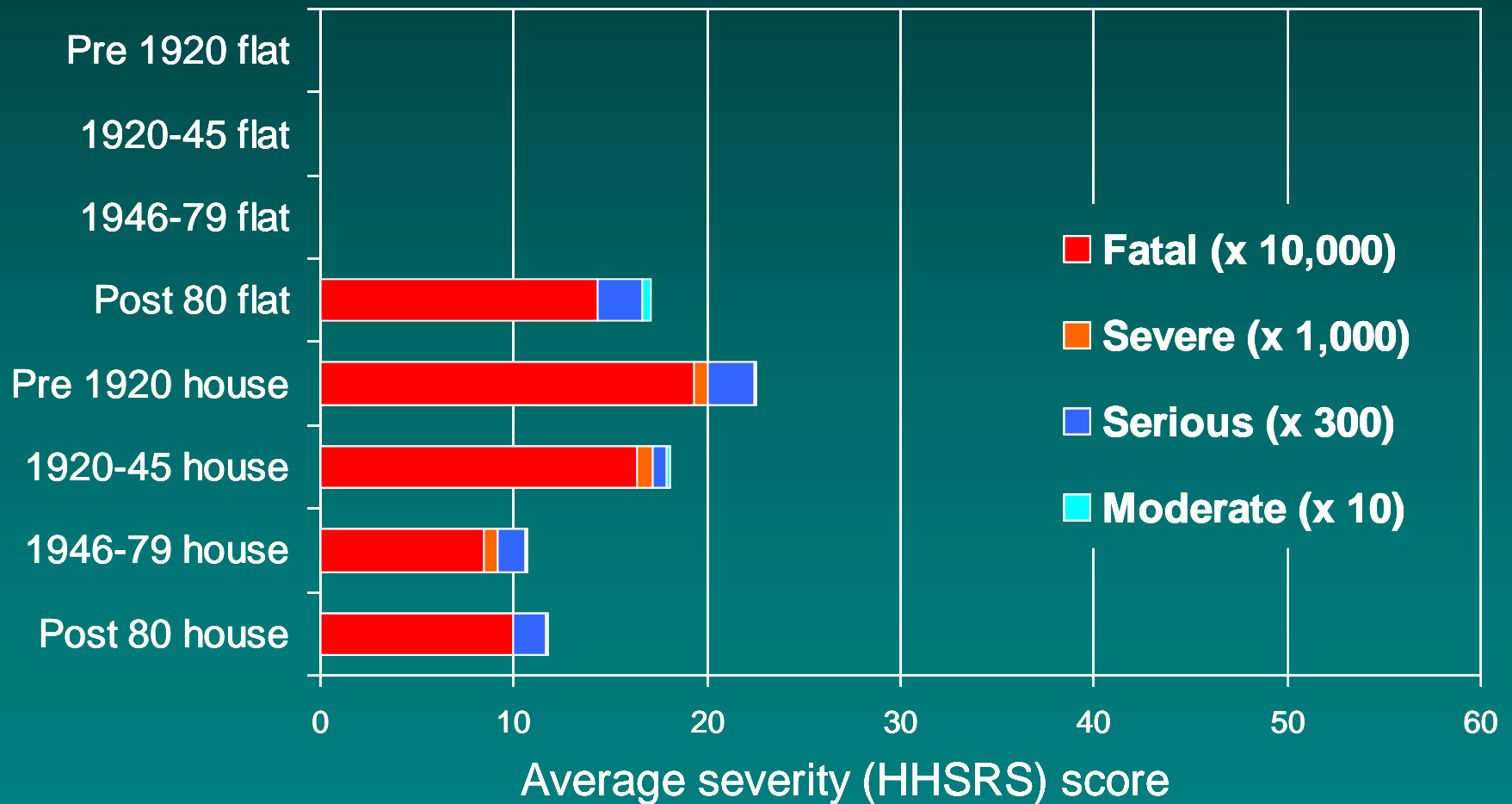
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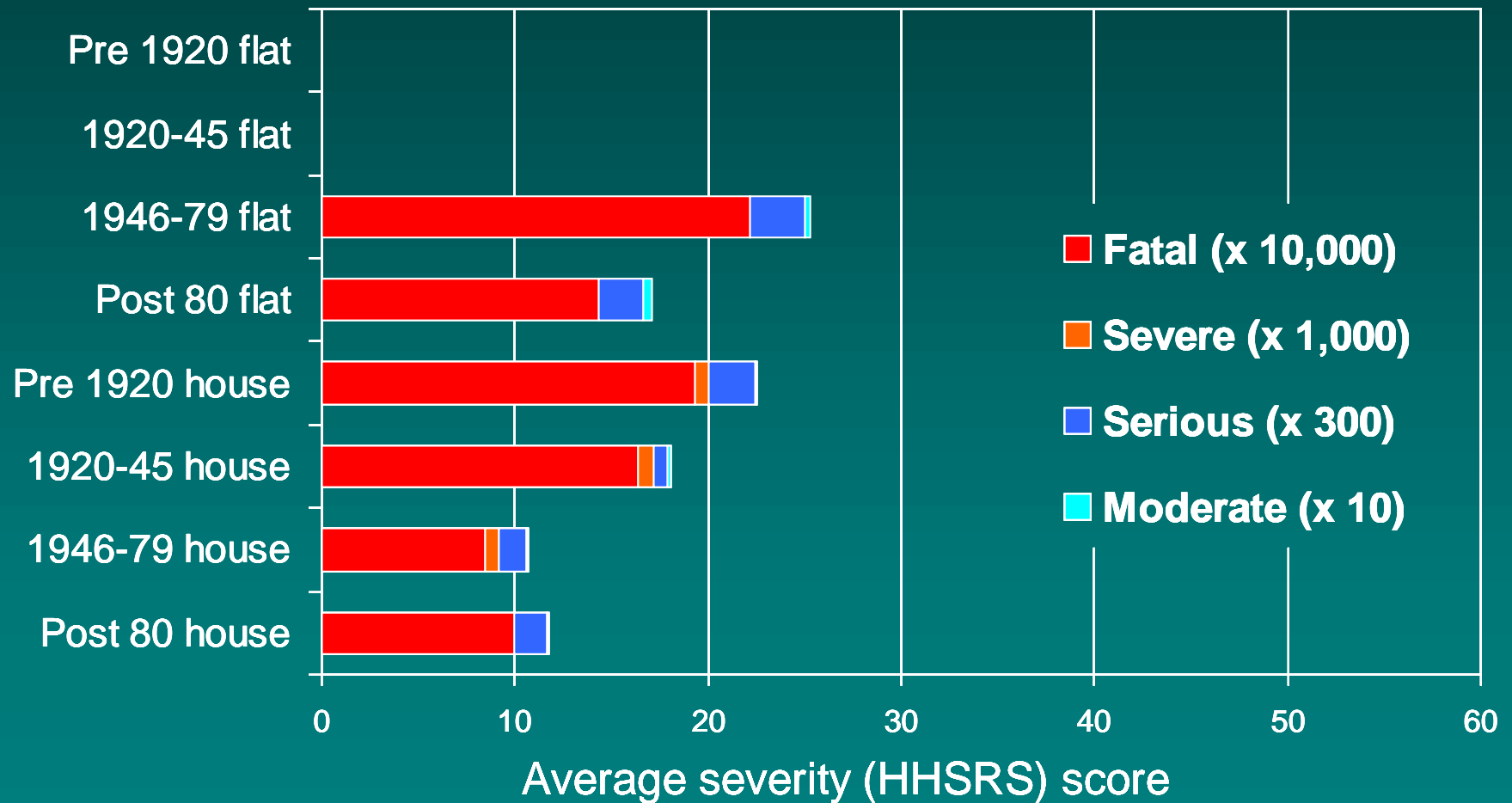
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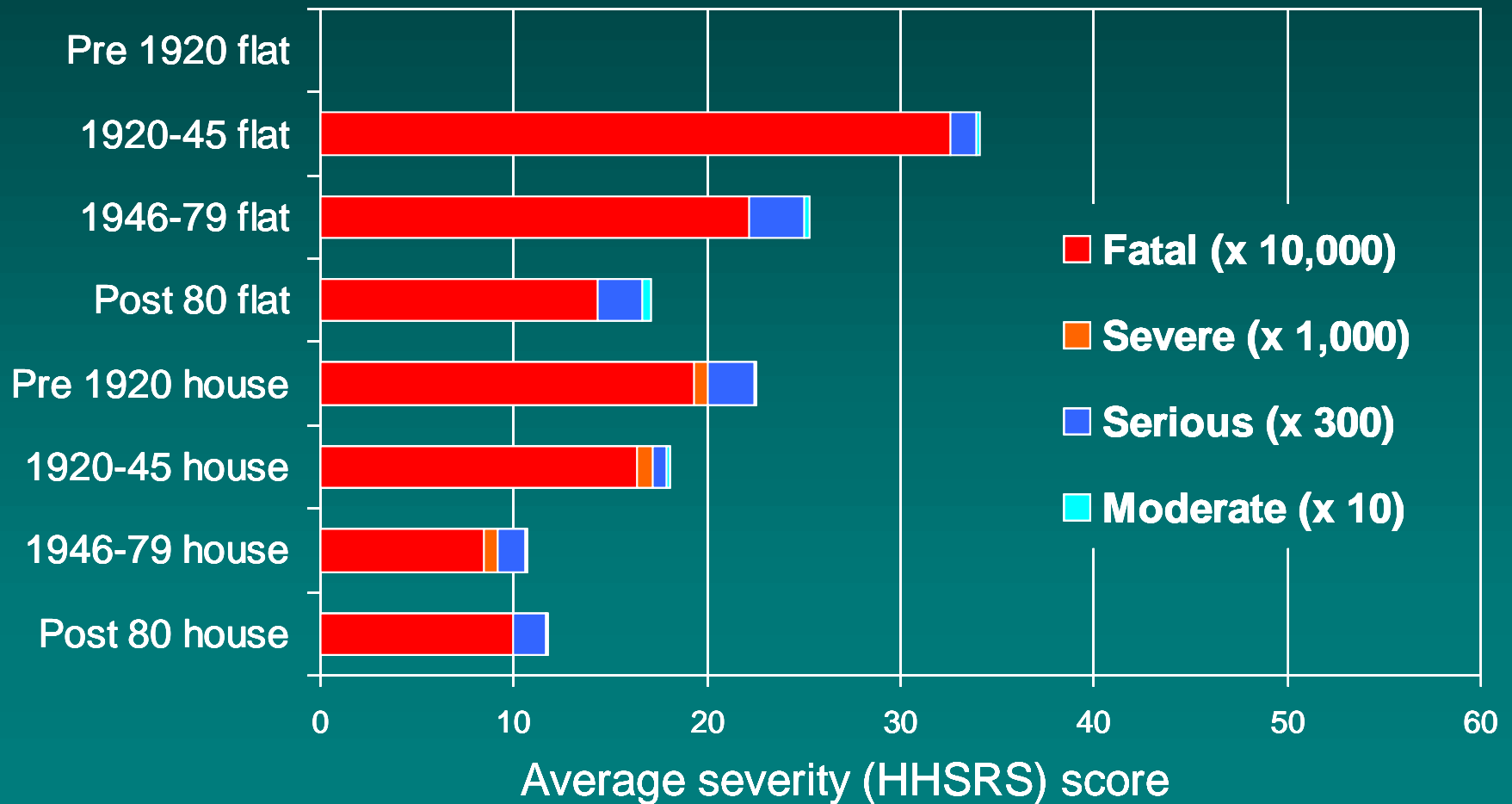
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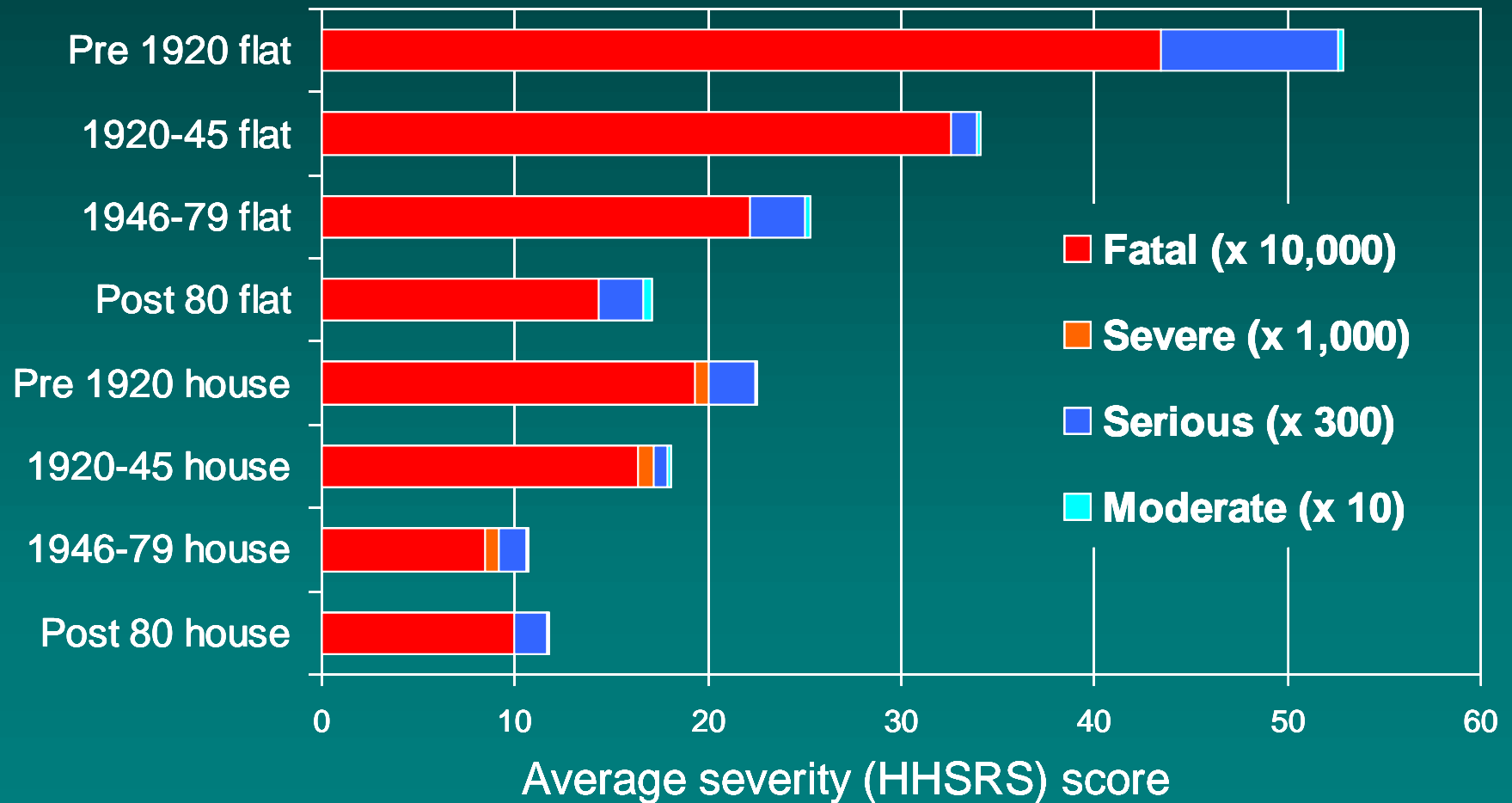
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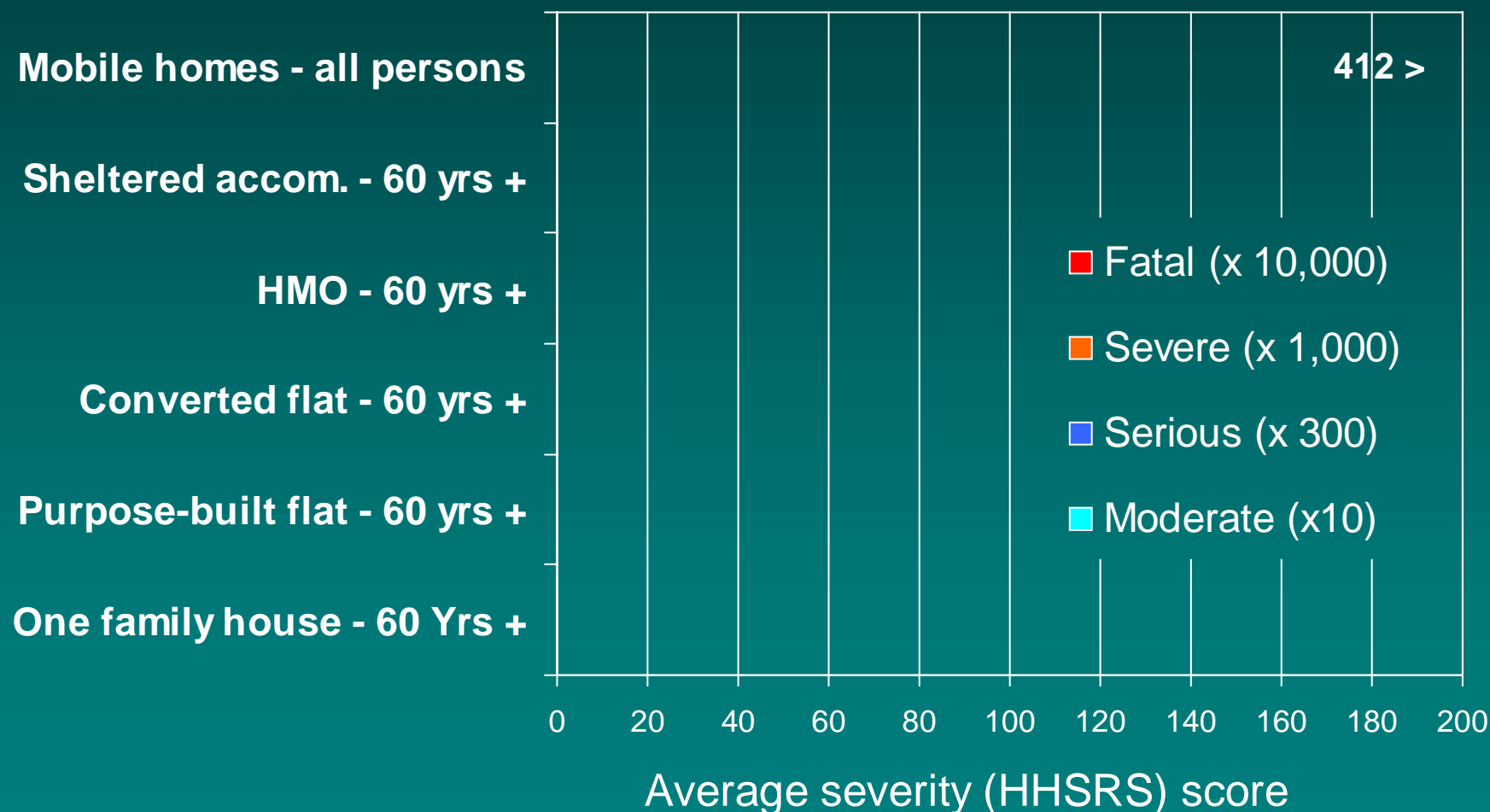
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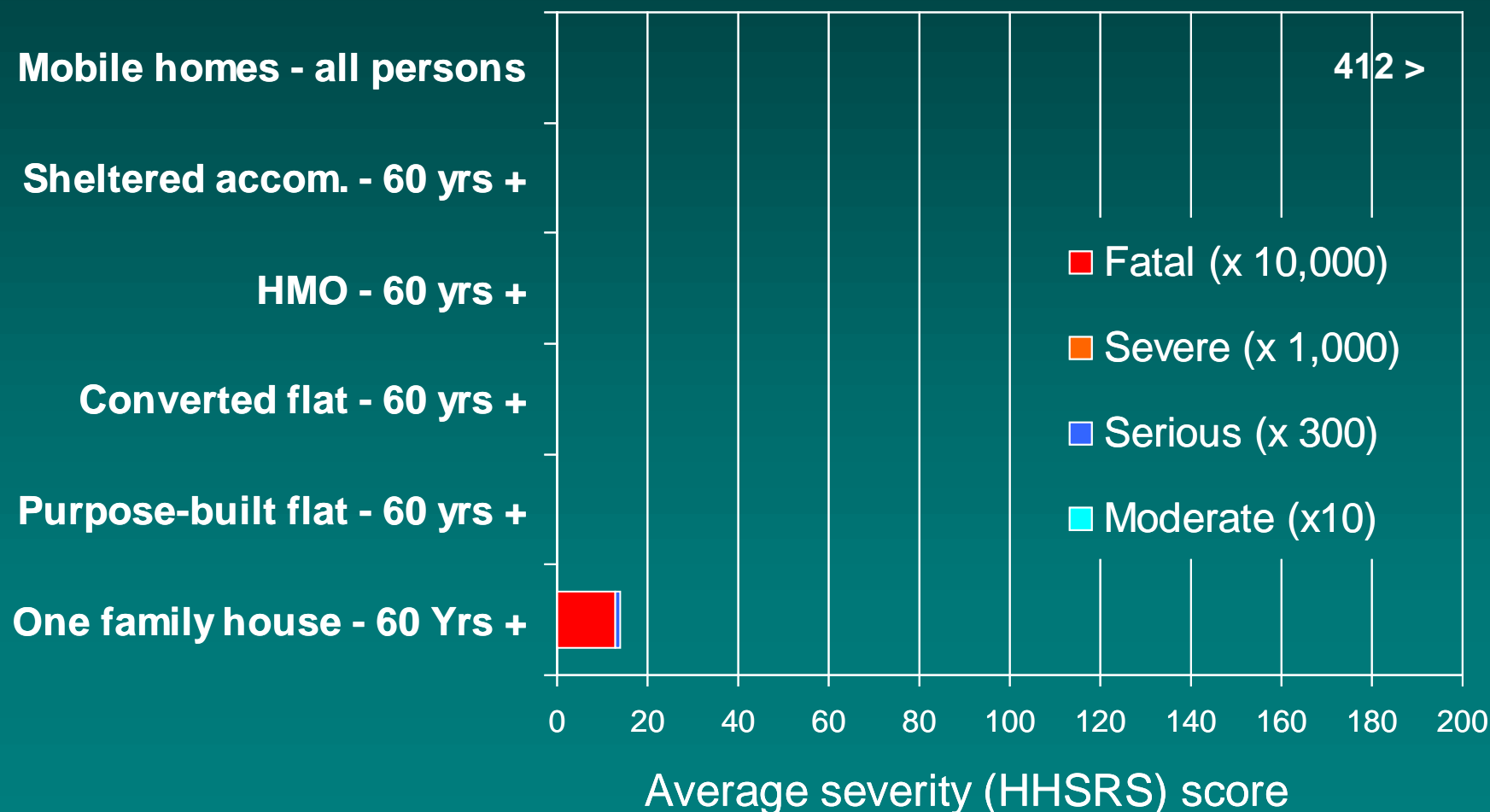
24. FIRE: Average HHSRS scores for death and injury of vulnerable group by type of home

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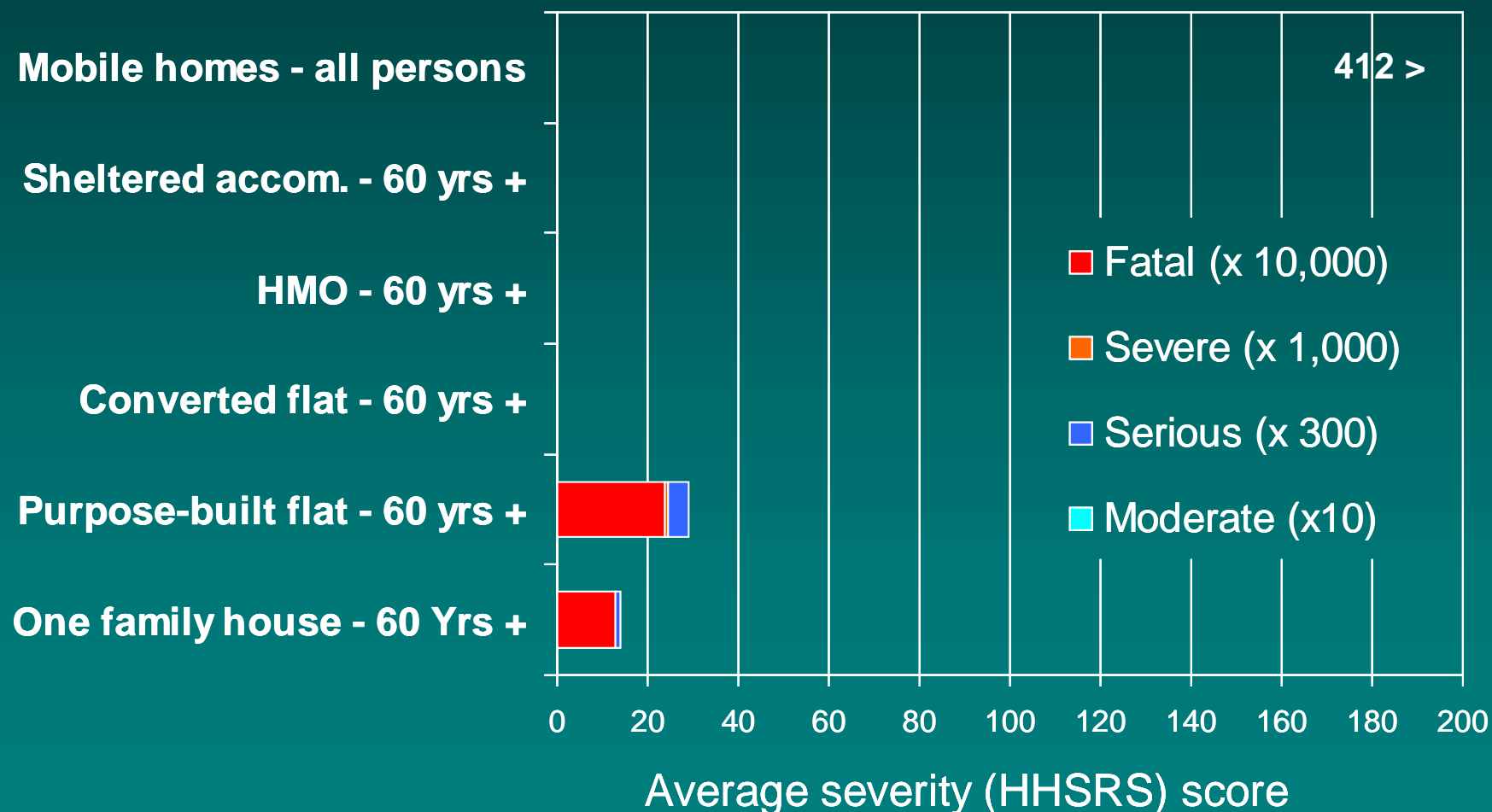
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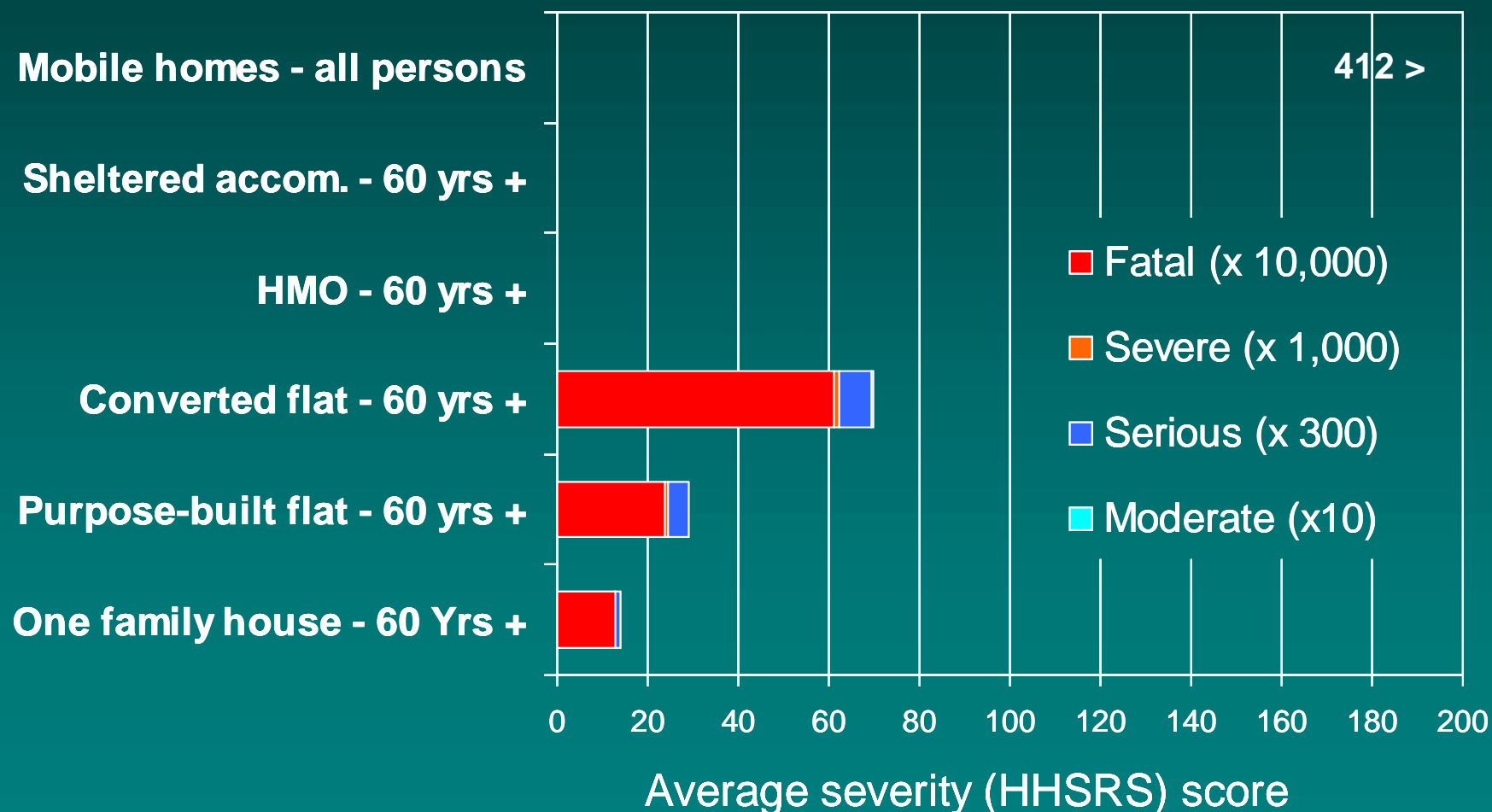
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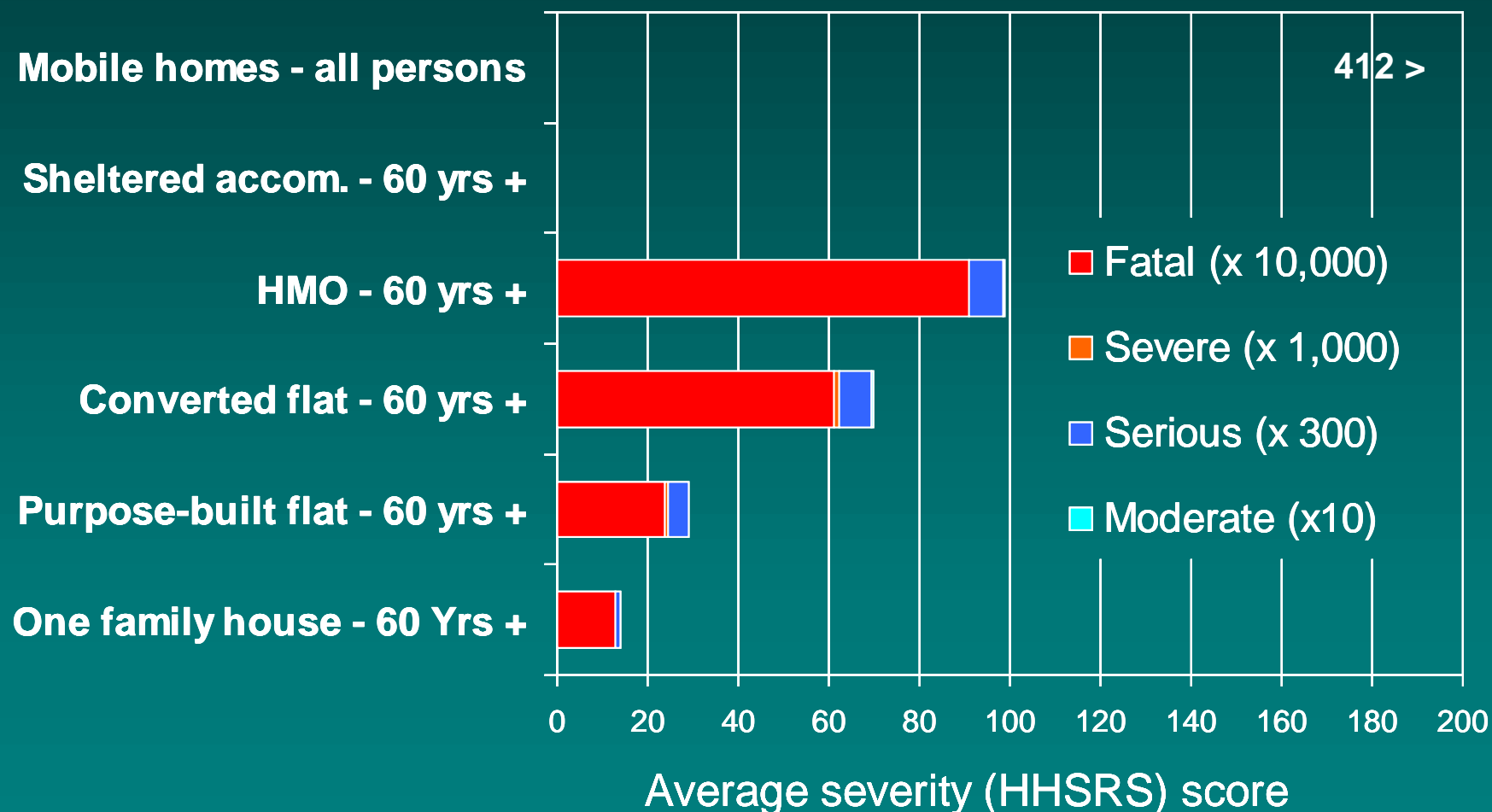
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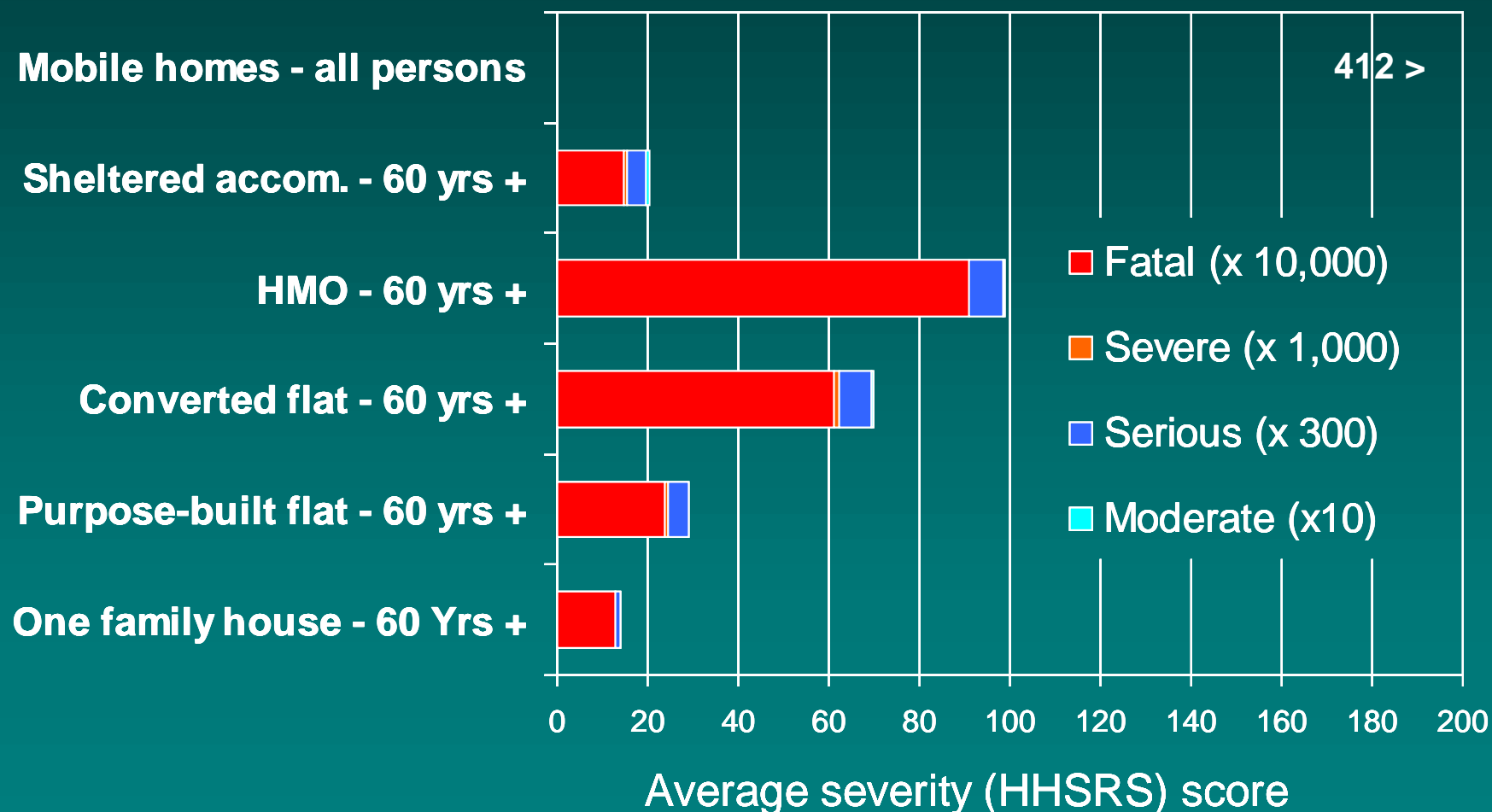
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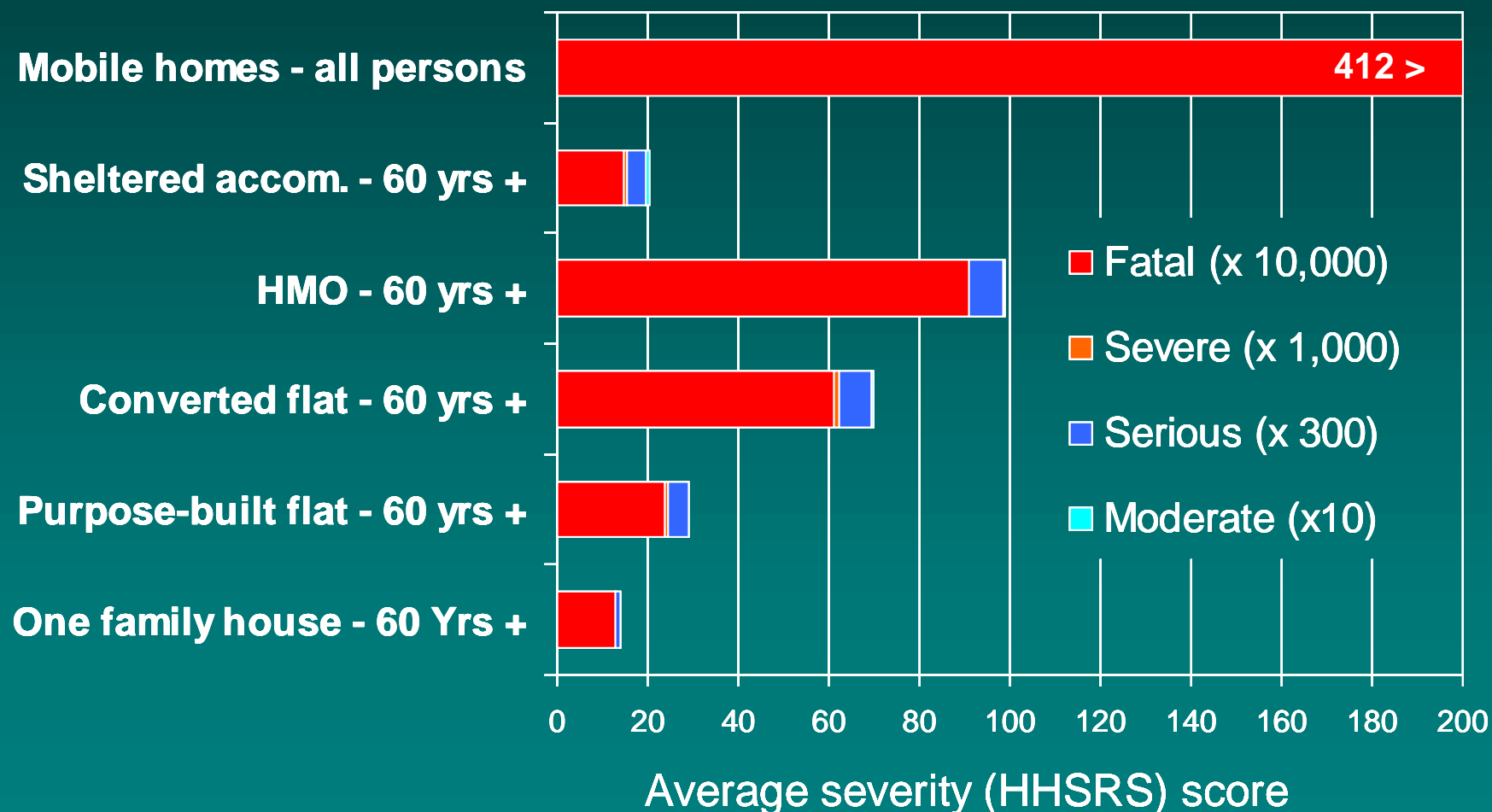
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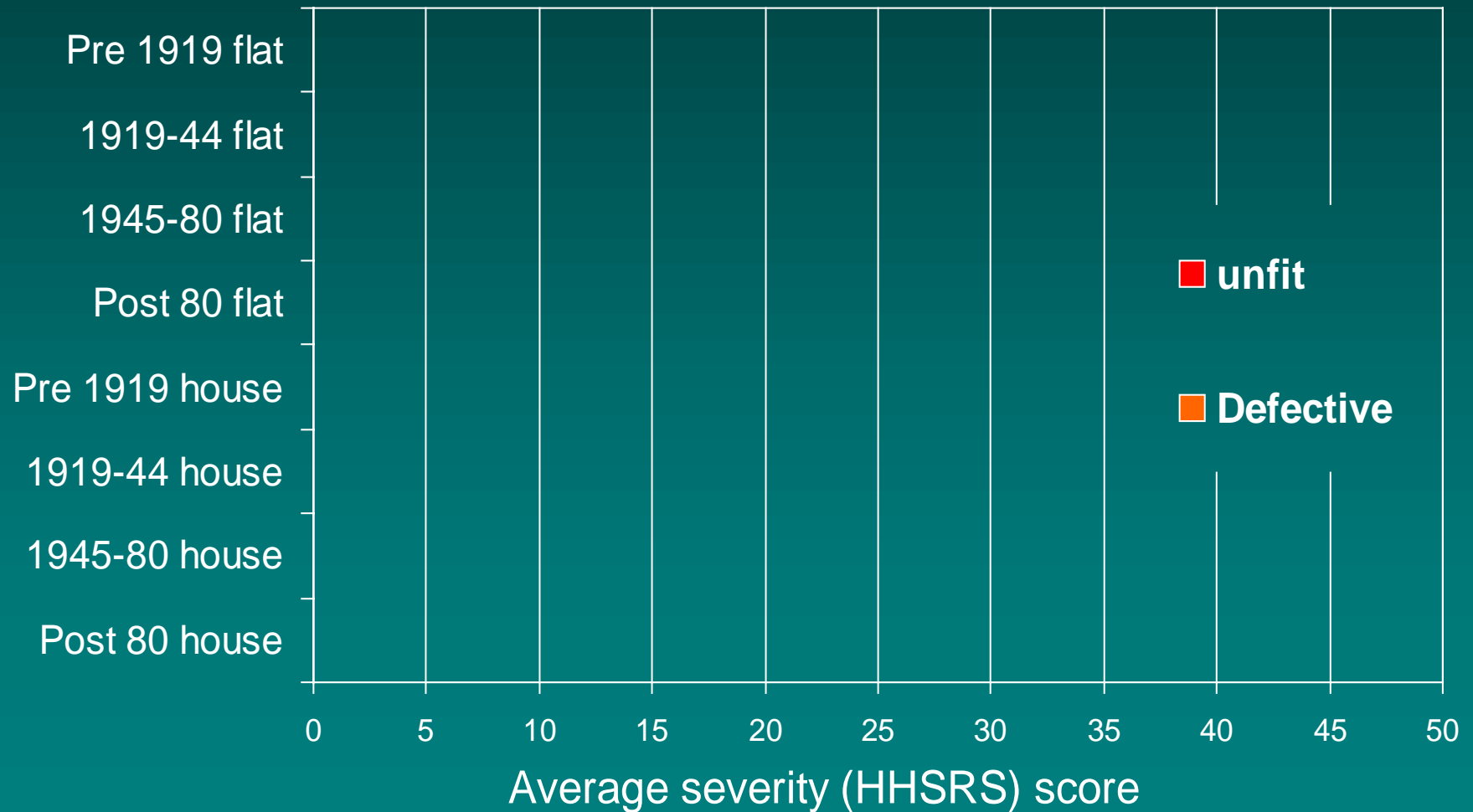


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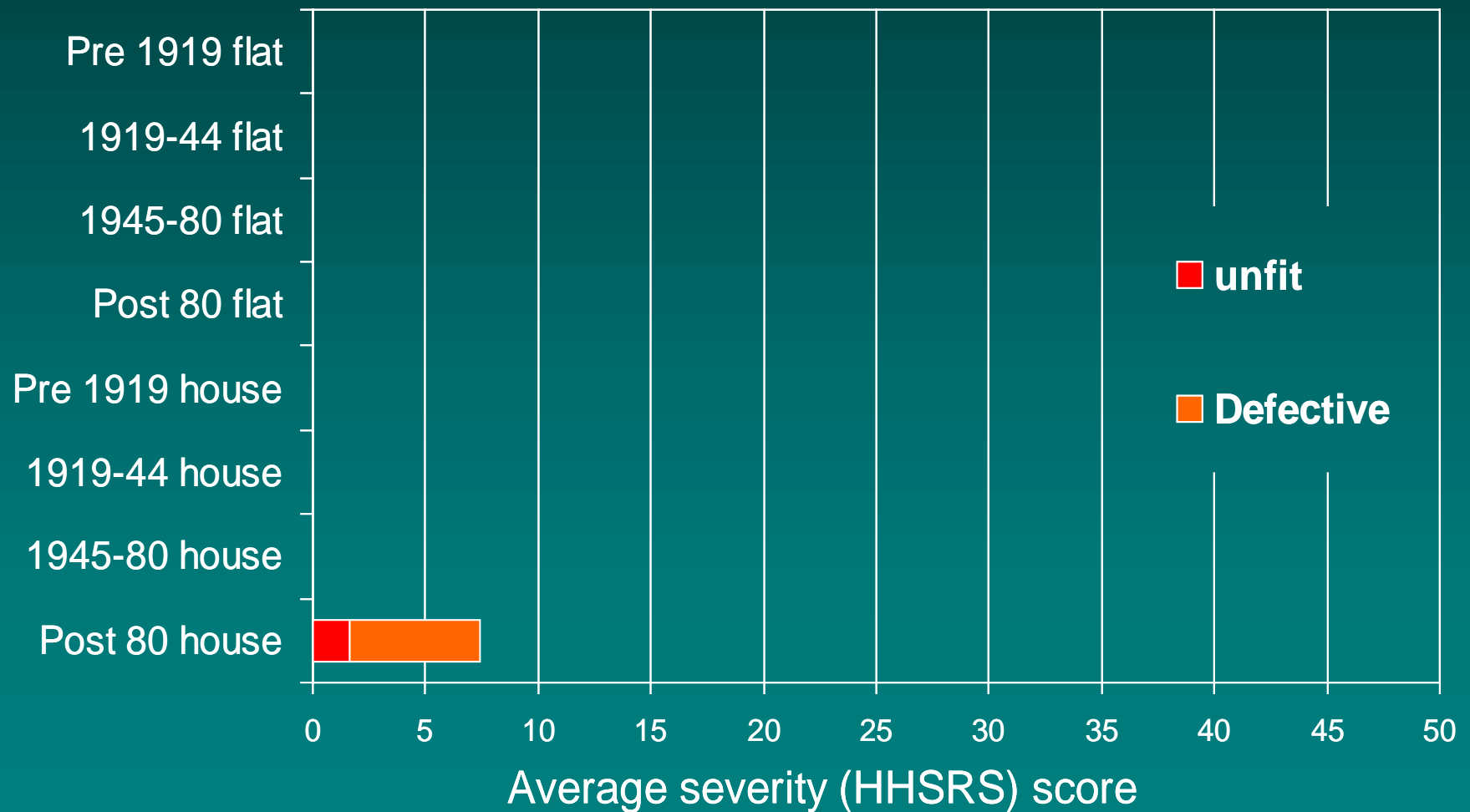


25. Percentage of each dwelling type unfit or defective under existing standard

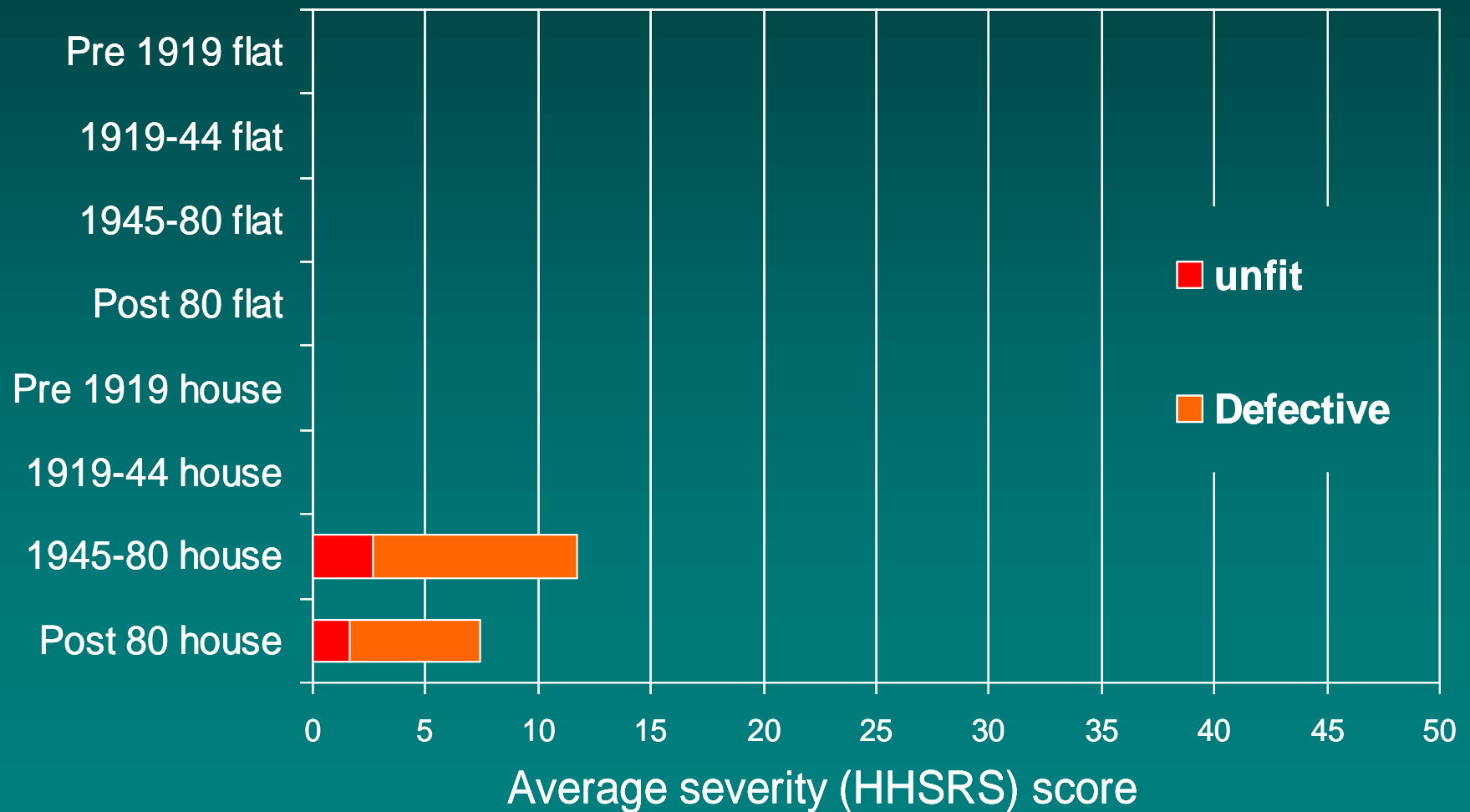
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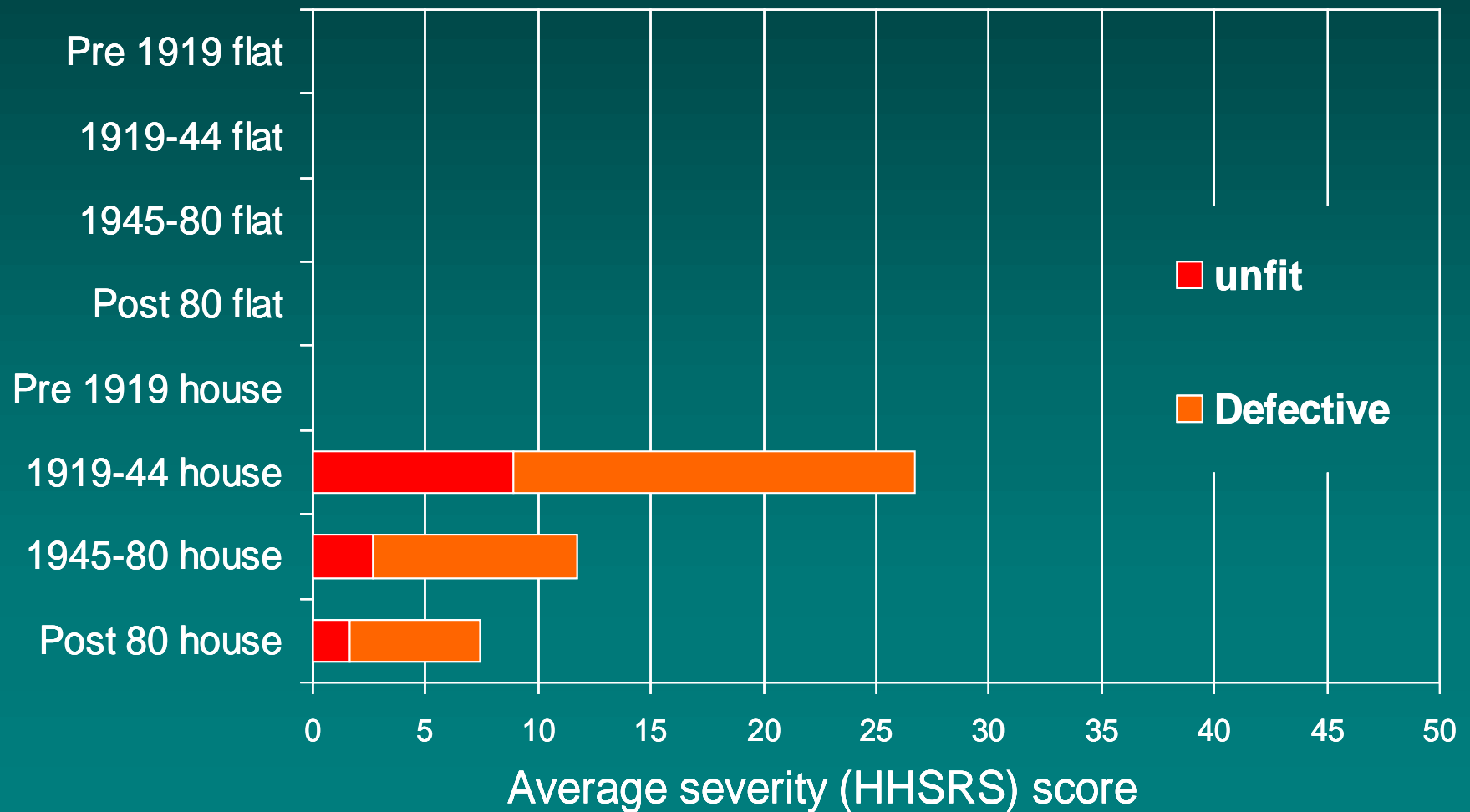
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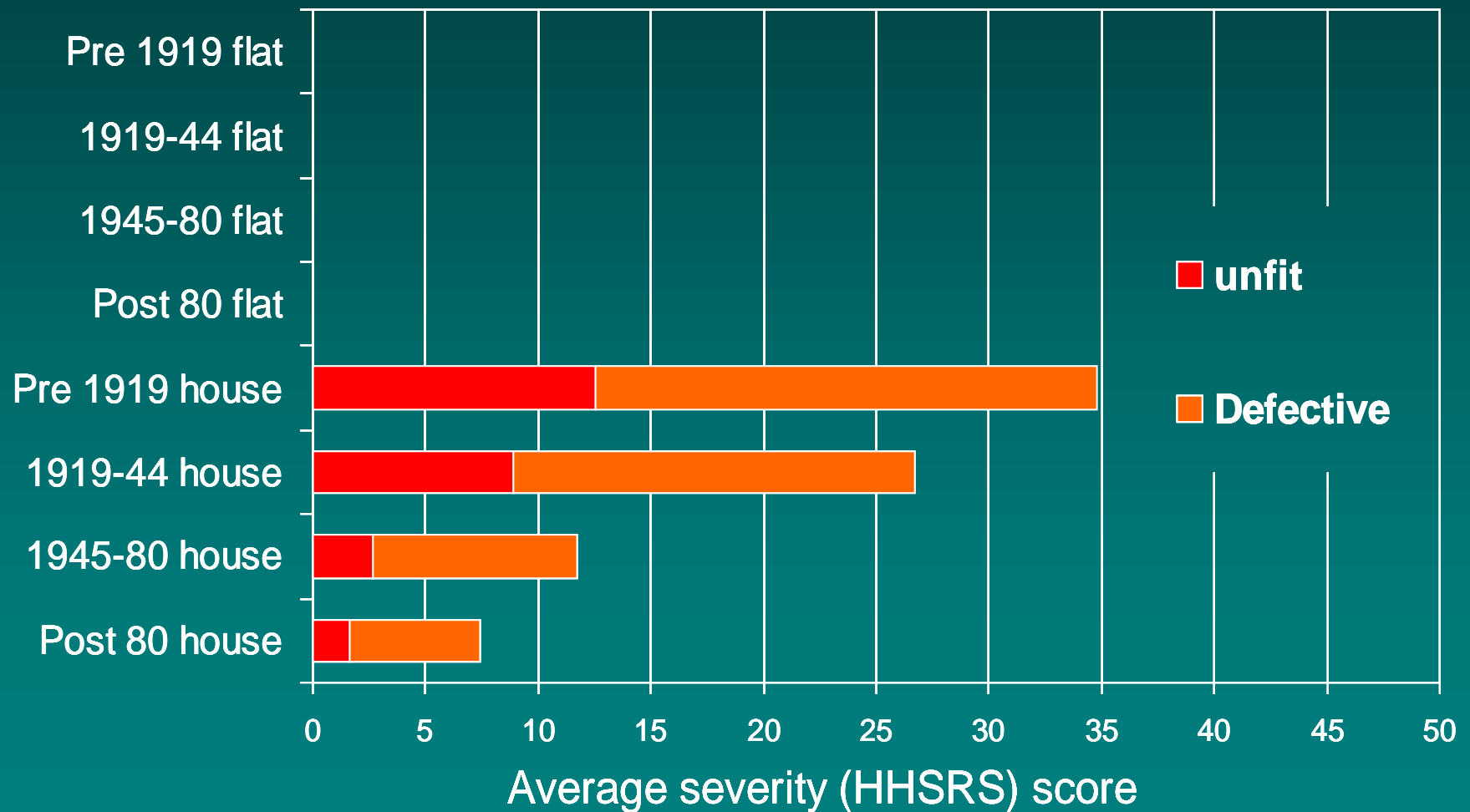
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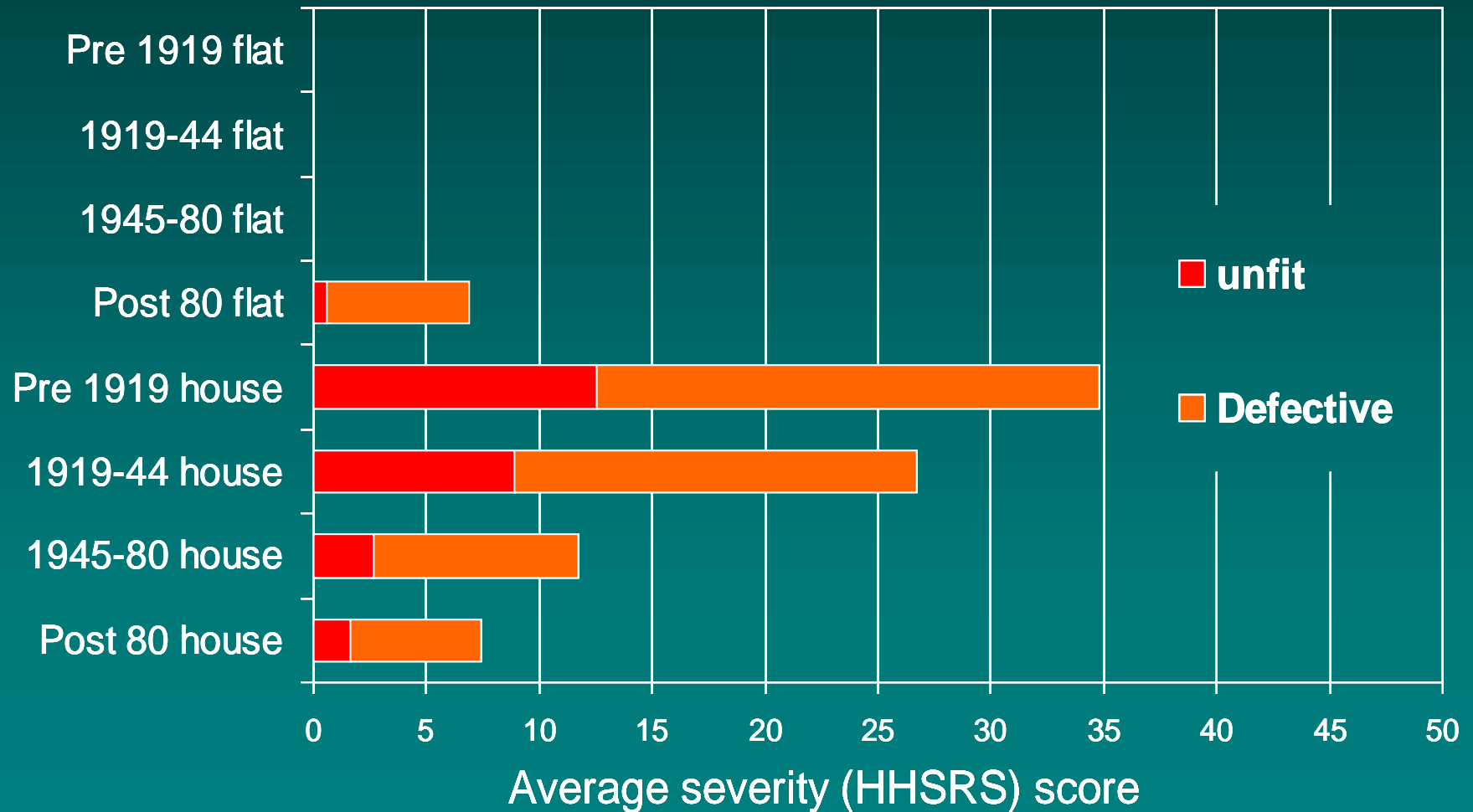
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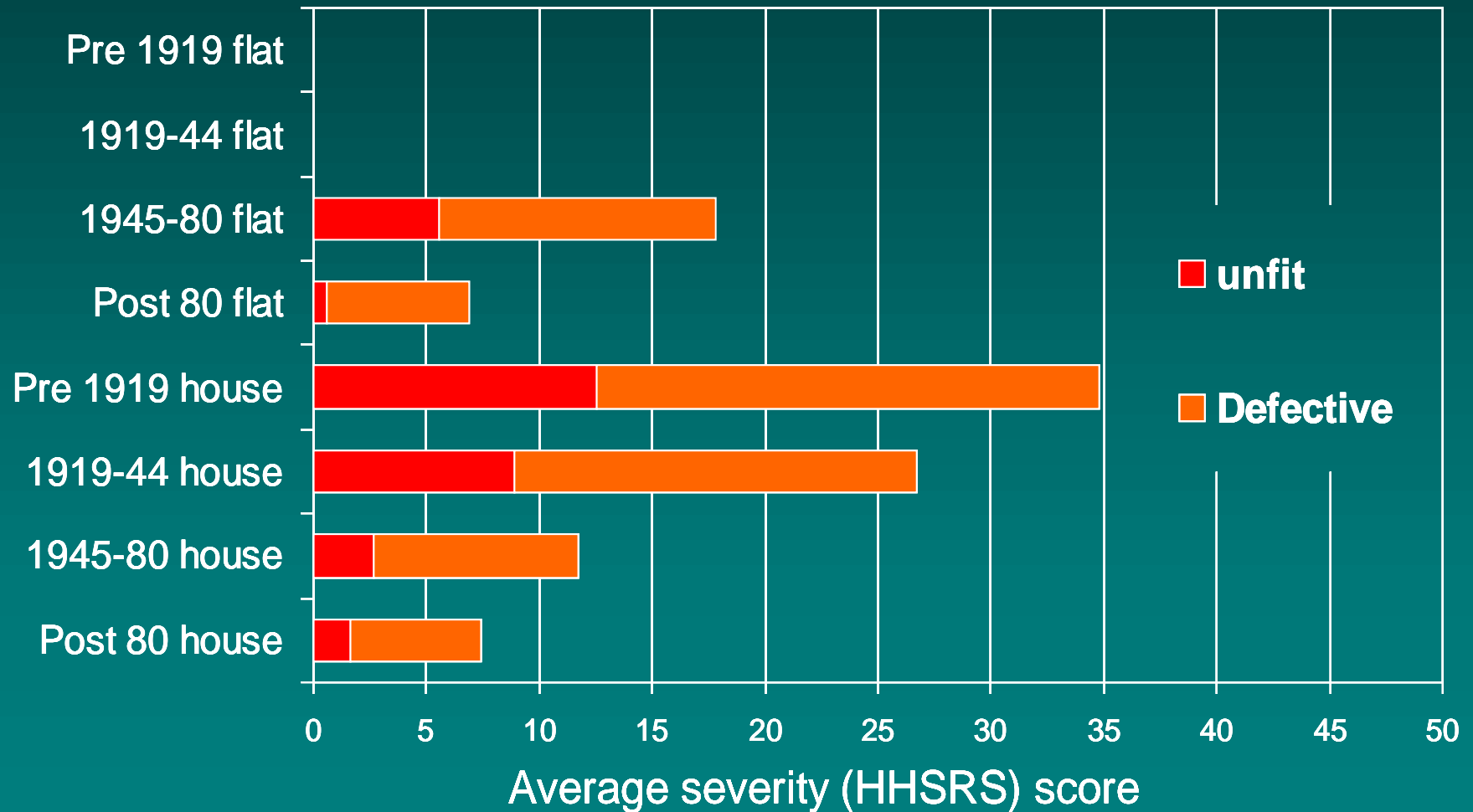
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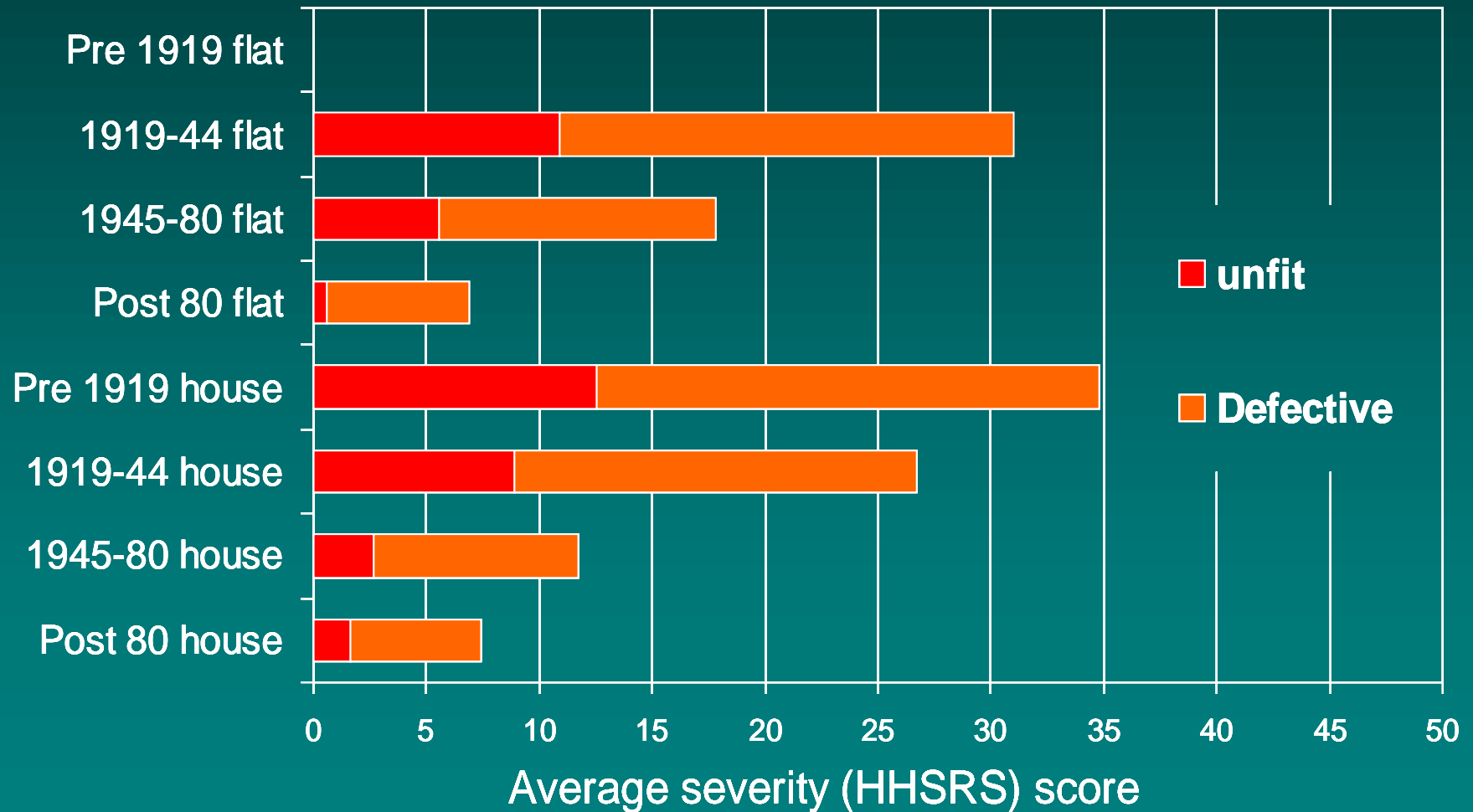
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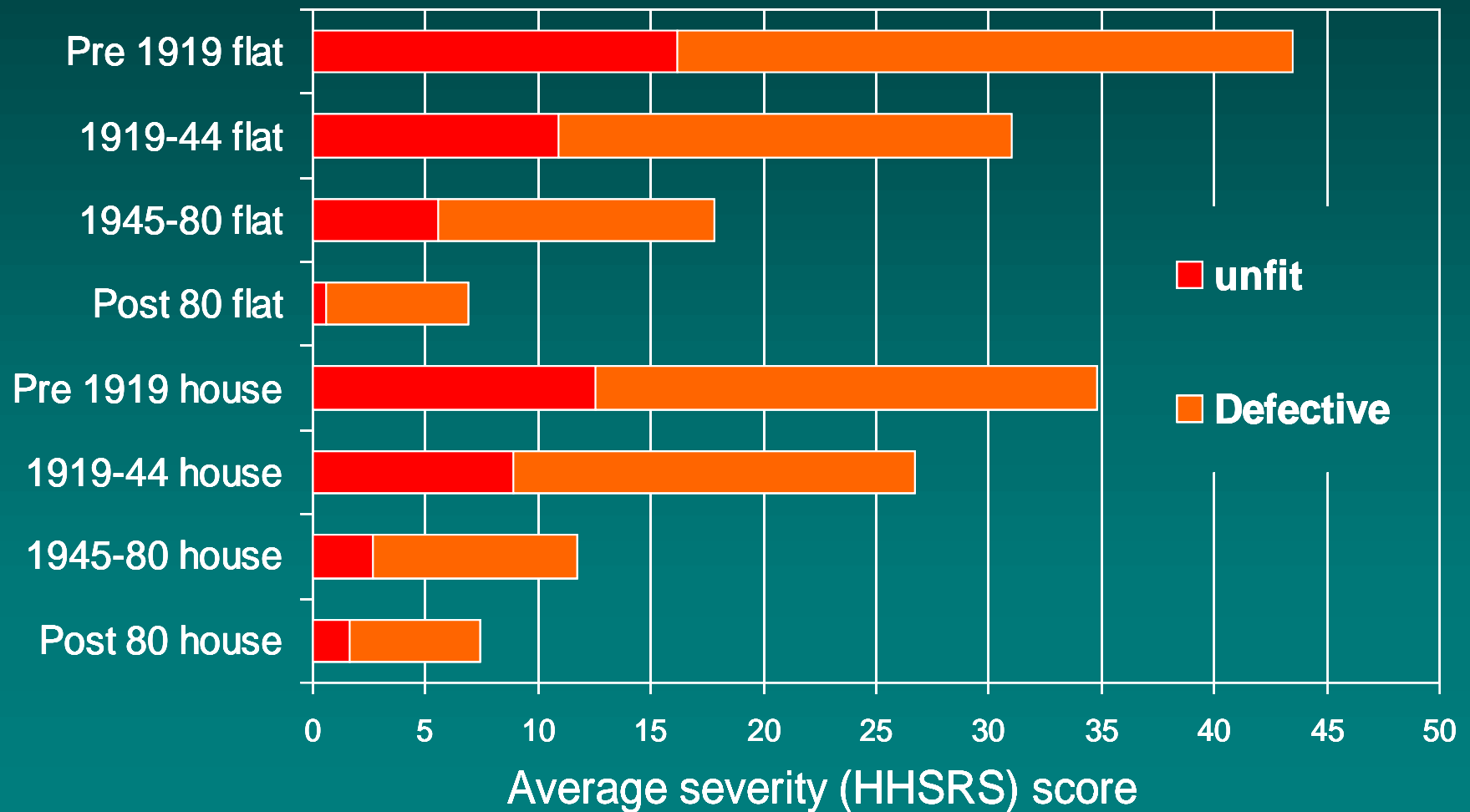
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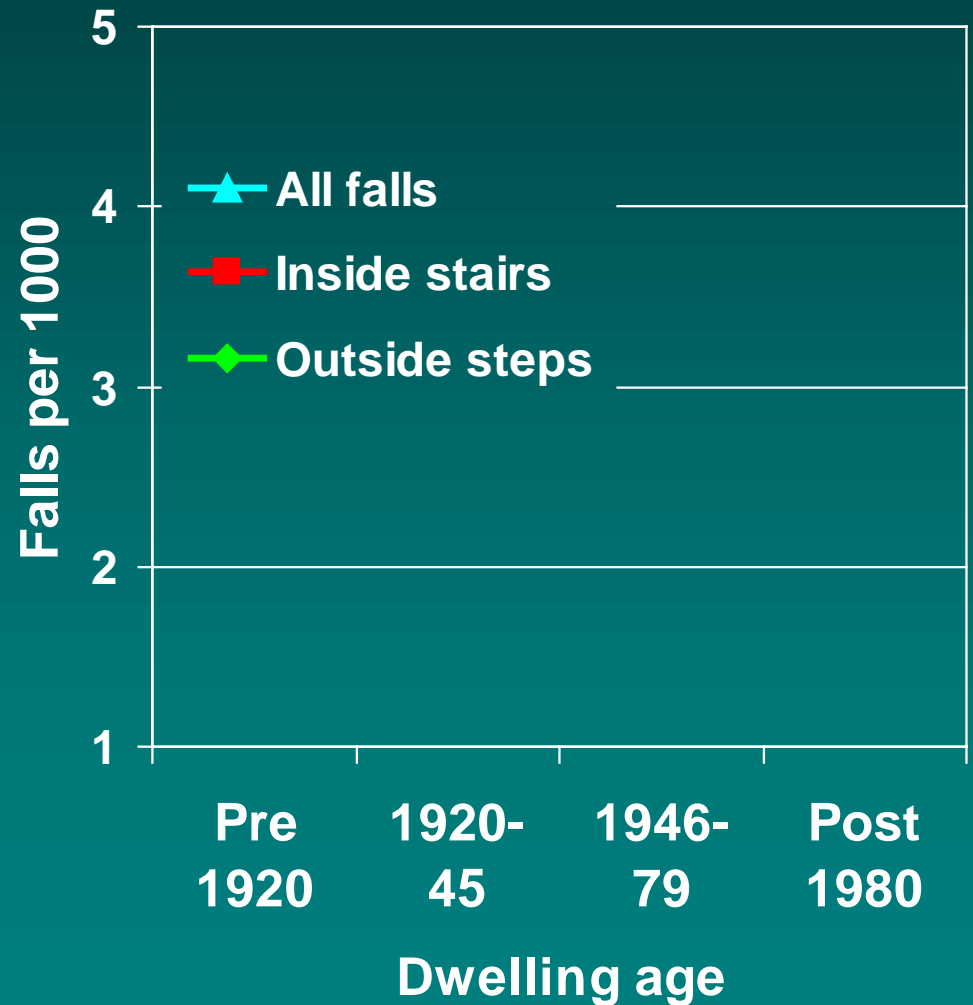
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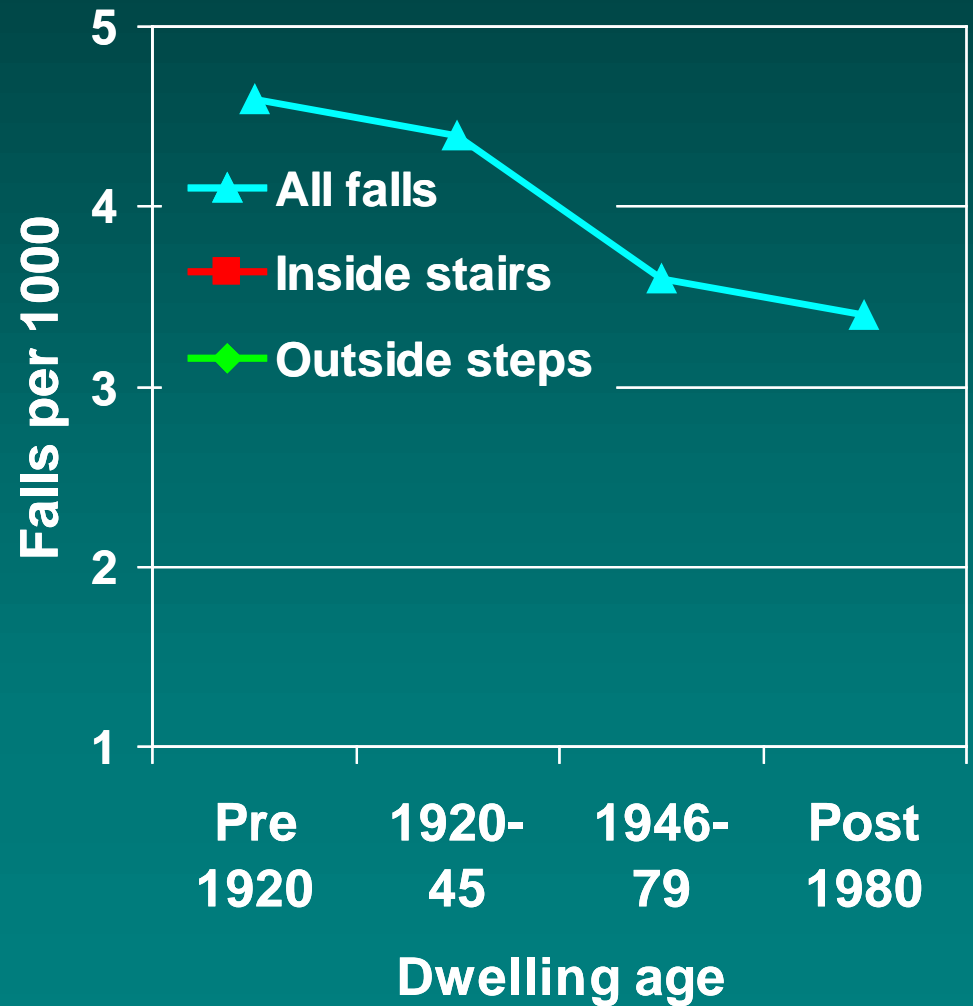
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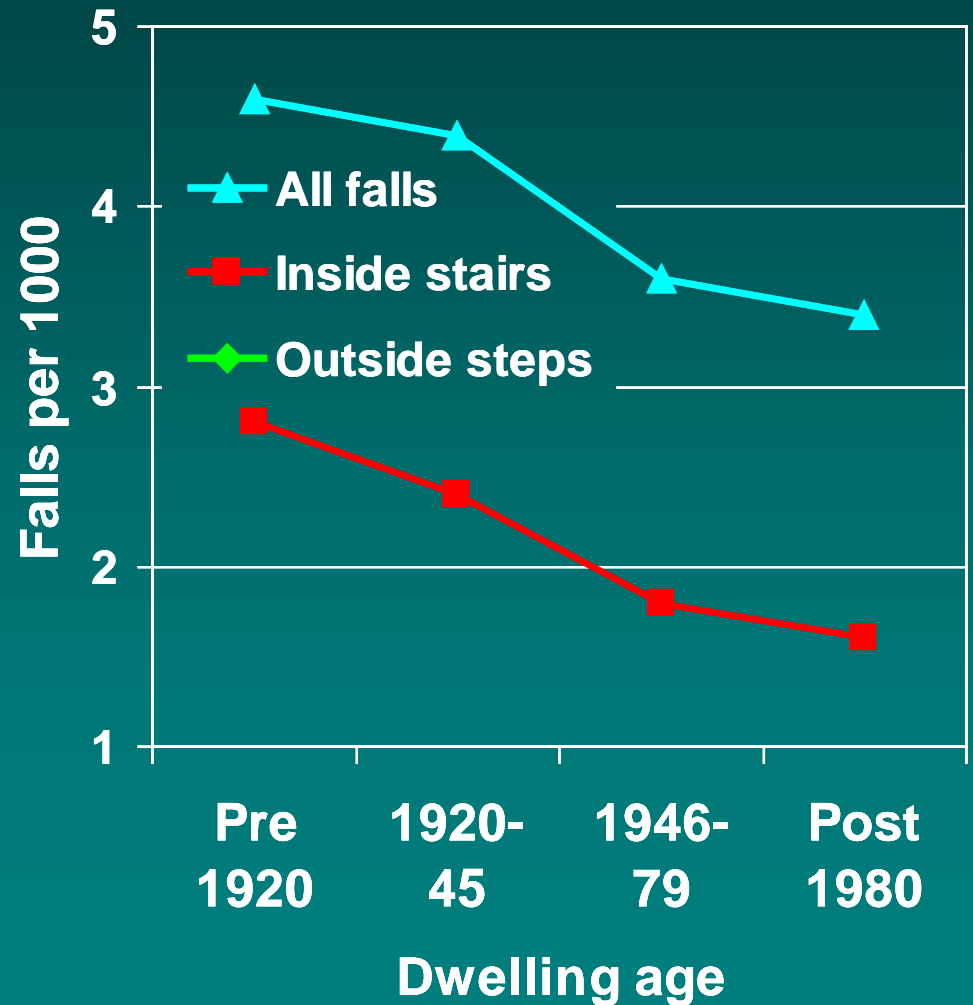
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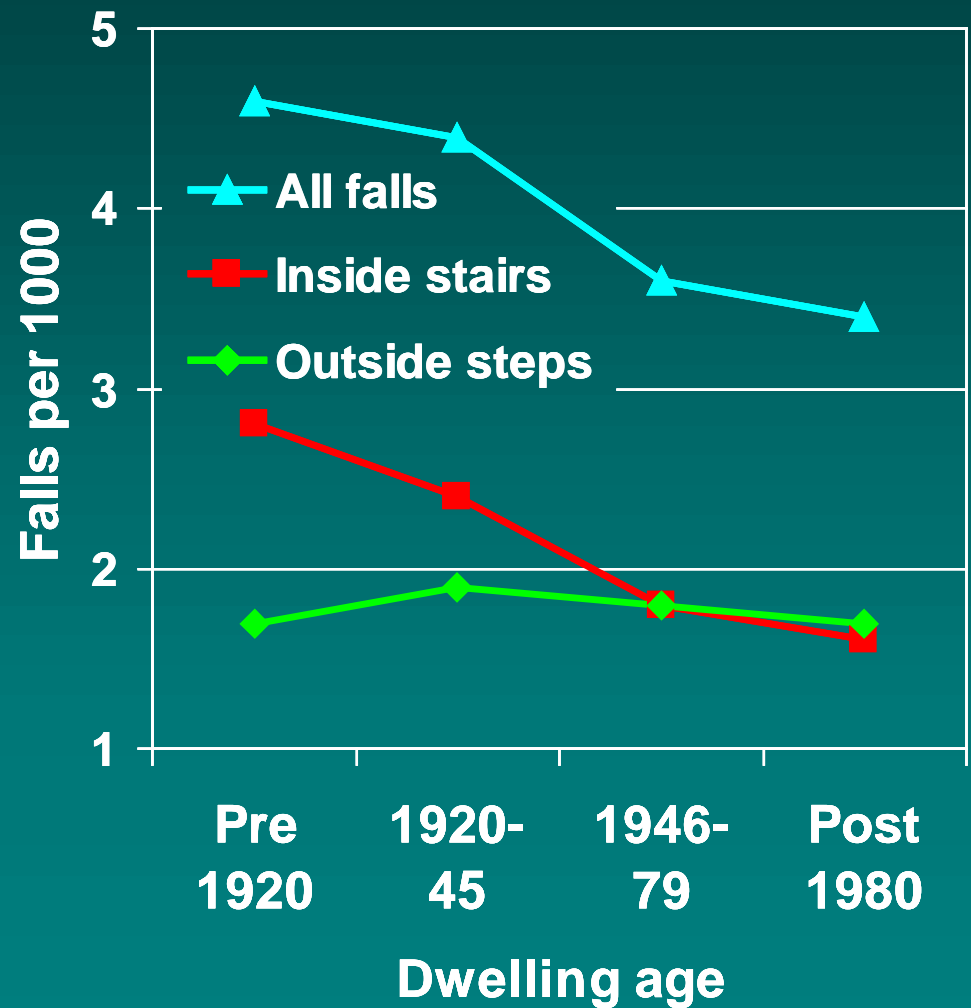
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- Extend RESIDATA to record converted flats & HMOs?

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Relate to populations to predict accidents nos.

Predict consequent accident/health savings

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Confirm with actual accident figures after improvements/advice

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