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# *International Survey on Clinical Pathways*

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# Goal of study

- **Overview on use of clinical pathways**
- **International Networking**
- **First steps from European towards International Pathway Association**

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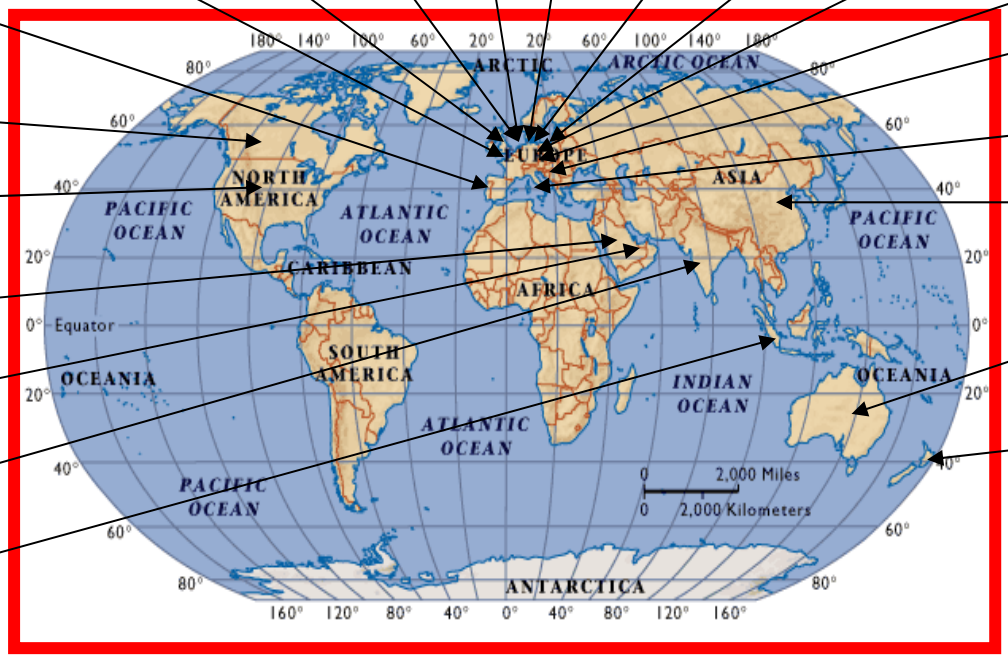
# 1.1. Countries Involved (1)




Germany
The Netherlands
England / Scotland / Wales
Estonia
Denmark
Guernsey
Belgium
Austria
Switzerland
Spain
Slovenia
Canada
Italy
USA
China
Saudi-Arabia
Australia
UAE
New-Zealand
India
Singapore

**23 countries involved**

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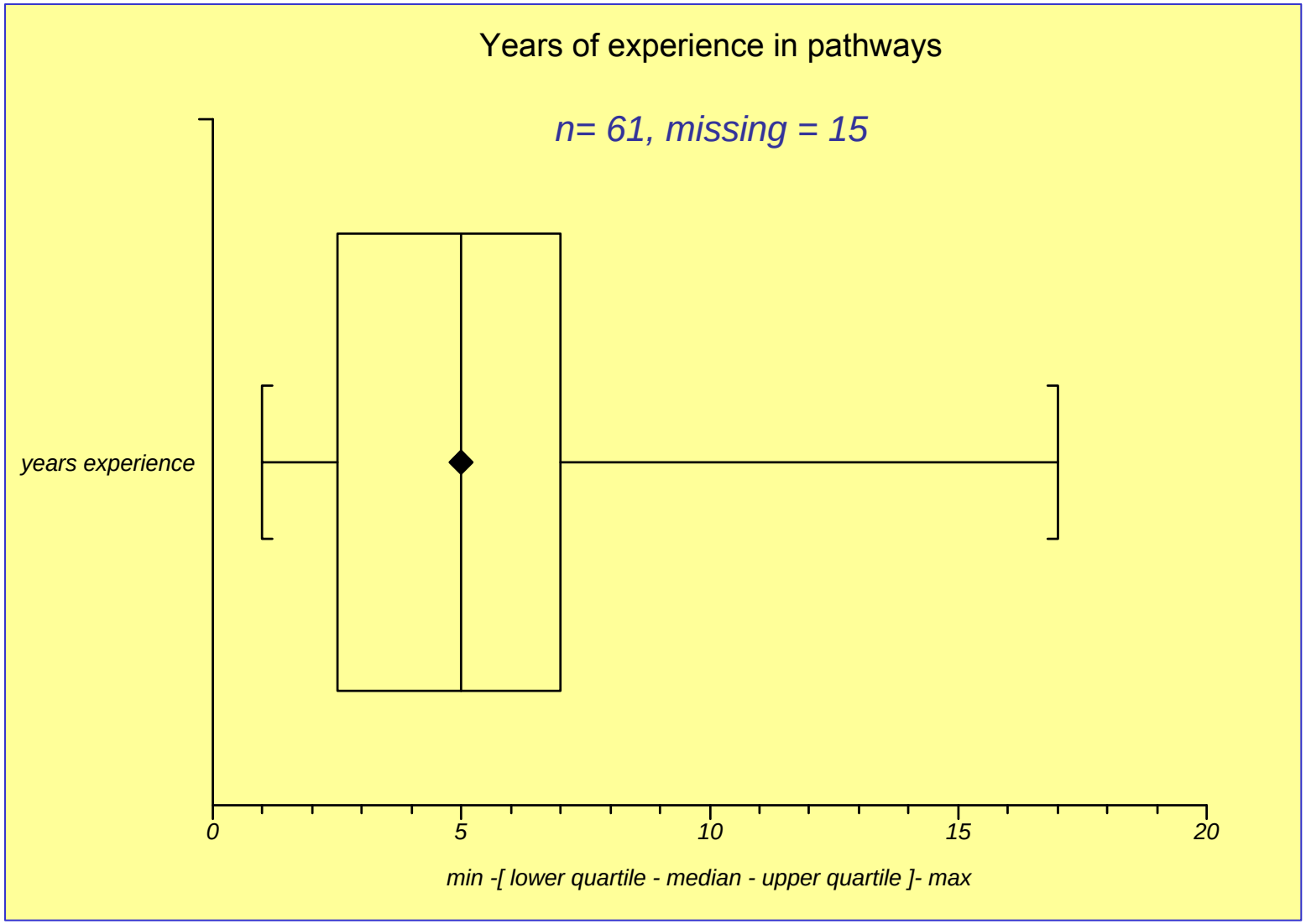
# 1.4. Experience of respondents

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# 2.1. Terminology (1)

- Care map
- CaseMap
- Care pathway
- Clinical pathway
- Clinical protocol
- Collaborative care plan
- Critical pathway
- Disease management
- ICP - integrated care pathway
- Integrated care pathway
- Model of integrate patient pathway
- Patient pathway
- Patient's journey
- Standard operating procedures
- Standardized order set

**14 different term**

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# 2.1. Terminology (2)

- **German (n=7):**
  - Behandlungspfad
  - Klinische Behandlungspfade
  - Klinische Patientenpfade
  - Klinische Pfade
- **Dutch (n=3):**
  - Klinisch Pad
  - Zorgpad
- **French (n=1)**
  - Itinéraire Clinique
- **Spanish (n=1):**
  - Via Clinica
- **Italian (n=10):**
  - Percorsi assistenziali
  - Percorsi clinico-assistenziali
  - Percorsi diagnostico-terapeutici-assistenziali
  - Percorso del paziente
  - Percorso assistenziale del paziente
  - Profili assistenziali
  - Profili di assistenza
  - Profili di cura
- **Slovenian (n=7):**
  - Klinična pot
  - Klinična poti

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# 2.2. Different definitions

- 67 definitions on Clinical Pathway (n=76)
  - Some with (different) references:
    - Casati, 2001, 2004
    - CCHSA, 2004
    - Coffey, 1992
    - Every, 2000
    - IHI, 2002
    - Meleskie et al., 2003
    - Middleton et al., 2000
    - MIPP, 2004
    - Noto, 2003
    - NPA, 1998
    - Overill, 1998
    - Panella et al., 1997, 2003
    - Pearson, 1995
    - Russo, 2000
    - Sermeus et al., 2001
    - Stekel, 2005

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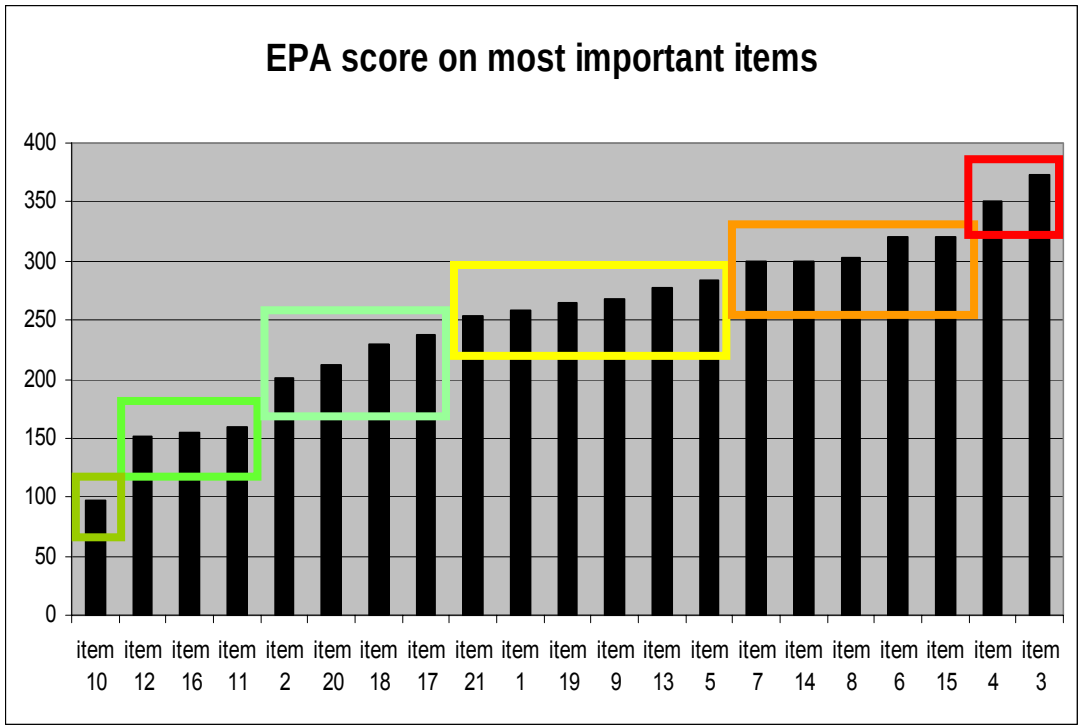
# 2.3. Important items (1)

| Item | EPA score | Most Important Items |
|---|---|---|
| item 10 | 98 | Improvement of quality of care |
| item 12 | 151 | Improving evidence based care |
| item 16 | 154 | Multidisciplinary use |
| item 11 | 160 | Improving efficiency of care |
| item 2 | 201 | Communication tool |
| item 20 | 212 | Standardization of care |
| item 18 | 229 | Plan to manage your care |
| item 17 | 237 | Outcome oriented |
| item 21 | 254 | Use of guidelines |
| item 1 | 258 | Communication tool |
| item 19 | 265 | Process oriented |
| item 9 | 267 | Improvement of patient satisfaction |
| item 13 | 277 | Including a timeline |
| item 5 | 284 | Education tool for staff members |
| item 7 | 299 | For homogeneous patient group |
| item 14 | 300 | Including variance analysis |
| item 8 | 302 | Improvement of compliance |
| item 6 | 320 | Focus on cost-efficiency |
| item 15 | 321 | Inventory of actions (record of care) |
| item 4 | 351 | Education tool for patients |
| item 3 | 373 | Data collection tool |

*Lower score = more important*
*Higher score = less important*




*All countries same weight*

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# 2.3. Important items (2)

- Based on the previous results we conclude that:
  - A clinical pathway / integrated care pathway is mostly used as:
    - A multidisciplinary tool to improve the quality and efficiency of evidence based care
    - It is used as a communication tool between professionals to manage and standardise the outcome oriented care
  - A clinical pathway / integrated care pathway is not really used as:
    - A tool to collect data or to educate patients

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| 3.1. | Are on a pathway | Could have been on a pathway | Will be on a pathway in 5 years |
|---|---|---|---|
| 81-100% | | | |
| 61-80% | | (61-80%)<br>Australia – Canada – Estonia – Saudi Arabia – Scotland – England – Wales – USA | (61-80%)<br>Estonia - UAE |
| 41-60% | | (41-60%)<br>Austria – Belgium – Germany – Netherlands – Singapore – Switzerland – UAE | (41-60%)<br>Australia – Canada – Saudi Arabia – Singapore – Wales – USA |
| 21-40% | Estonia – Singapore – USA | (21-40%)<br>Guernsey – India – Italy – Spain | (21-40%)<br>Austria – Germany – Netherlands – Scotland – Slovenia – Switzerland - England |
| 16-20% | | (1-20%)<br>China – Denmark –<br>New Zealand – Slovenia | (11-20%)<br>Belgium – China – Denmark – Guernsey – Italy – New Zealand |
| 11-15% | Australia – Canada – England | | |
| 6-10% | Austria – Saudi Arabia – Scotland – Wales | | (1-10%)<br>India – Spain |
| 1-5% | Belgium – China - Denmark – Germany – Guernsey – Italy – Netherlands –<br>New Zealand – Slovenia – Spain – Switzerland | | |
| 0% | India - UAE | | |

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# 3.2. Used in what kind of organisations

| Modus/Country | | Teaching Hospitals | Acute Trust | Rehab | Primary | Psychiatry |
|---|---|---|---|---|---|---|
| Belgium | 5 | YES | YES | YES | YES | YES |
| Canada | 5 | YES | YES | YES | YES | YES |
| England | 5 | YES | YES | YES | YES | YES |
| Estonia | 5 | YES | YES | YES | YES | YES |
| Scotland | 5 | YES | YES | YES | YES | YES |
| USA | 5 | YES | YES | YES | YES | YES |
| Wales | 5 | YES | YES | YES | YES | YES |
| Australia | 3 | YES | YES | NO | NO | YES |
| Germany | 3 | YES | YES | YES | NO | NO |
| Netherlands | 3 | YES | YES | NO | NO | YES |
| Singapore | 3 | YES | YES | YES | NO | NO |
| Austria | 2 | YES | NO | NO | YES | NO |
| Denmark | 2 | YES | NO | NO | YES | NO |
| Guernsey | 2 | NO | YES | YES | NO | NO |
| India | 2 | NO | NO | YES | NO | YES |
| Italy | 2 | YES | YES | NO | NO | NO |
| Slovenia | 2 | YES | YES | NO | NO | NO |
| China | 1 | YES | NO | NO | NO | NO |
| New Zealand | 1 | YES | NO | NO | NO | NO |
| Saudi Arabia | 1 | YES | NO | NO | NO | NO |
| Spain | 1 | YES | NO | NO | NO | NO |
| Switzerland | 1 | NO | YES | NO | NO | NO |
| UAE | 1 | NO | YES | NO | NO | NO |
| EPA survey | | 83% | 65% | 43% | 39% | 43% |

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# 3.4. Format of the pathway

| Modus/Country | Pathways replace paper record | Pathways are paper based | Some are IT Supported |
|---|---|---|---|
| Australia | YES | YES | NO |
| Austria | NO | NO | YES |
| Belgium | NO | YES | YES |
| Canada | YES | YES | NO |
| China | NO | YES | NO |
| Denmark | NO | YES | YES |
| England | NO | YES | YES |
| Estonia | NO | NO | YES |
| Germany | NO | YES | YES |
| Guernsey | NO | YES | NO |
| India | NO | YES | NO |
| Italy | NO | YES | YES |
| Netherlands | YES | YES | YES |
| New Zealand | NO | YES | NO |
| Saudi Arabia | NO | YES | YES |
| Scotland | YES | YES | YES |
| Singapore | YES | YES | YES |
| Slovenia | NO | YES | NO |
| Spain | NO | YES | YES |
| Switzerland | NO | YES | NO |
| UAE | NO | YES | NO |
| USA | NO | YES | YES |
| Wales | NO | YES | NO |
| **EPA Survey** | **22%** | **91%** | **57%** |

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# 3.5. Senior Management Support (1)

***In what percentage of the organisations in your country is the senior management involved in Clinical Pathways?***

| % involved | Country |
|---|---|
| **81-100%** | Australia |
| **61-80%** | Estonia |
| **41-60%** | USA - Wales |
| **21-40%** | Belgium - Canada - Singapore |
| **11-20%** | Germany - Netherlands |
| **1-10%** | Austria - China - England - Guernsey - Italy - Saudi-Arabia - Scotland - Slovenia - Spain - Switzerland |
| **Not involved** | India - New Zealand |

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# 3.5. Senior Management Support (2)

***How important are pathways for the strategy of the organisations in your country?***

**Least Important** — **Most Important**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| India | | China<br>Guernsey<br>Italy<br>New-Zealand<br>Saudi-Arabia<br>Scotland<br>Spain | Denmark<br>England<br>Wales | | Estonia<br>UAE<br>USA | Austria<br>Belgium<br>Canada<br>Germany<br>Nether-lands<br>Slovenia<br>Switzer-land | | Australia | Singa-pore |

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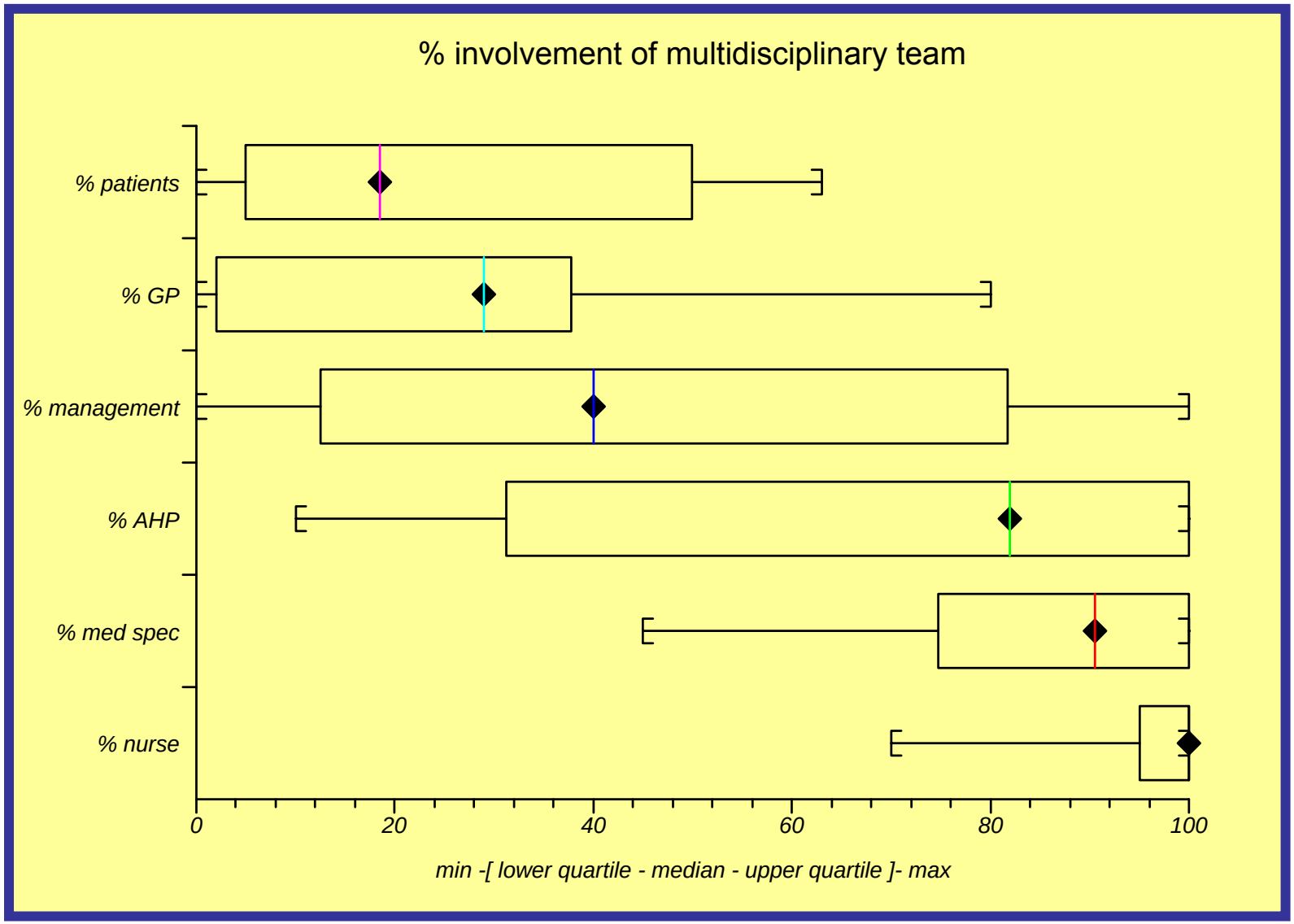
# 4.1. Multidisciplinary team involved (2)

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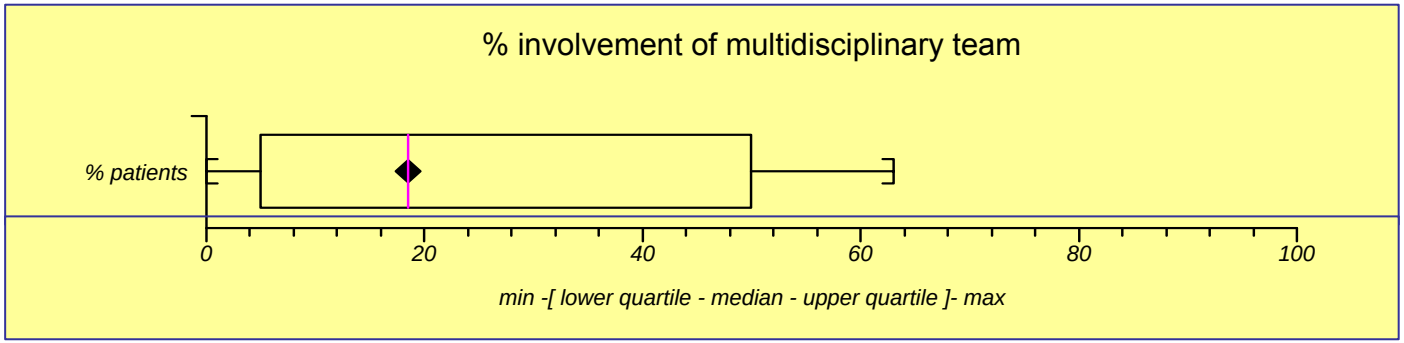
# 4.2. Involvement of patients




- Patient attending the development meetings
- A consumer representation / user groups / Patient organisation representative
- Focus Group / round table
- Interviews / patient survey / questionnaires
- Walkthrough
- Measuring Patient Satisfaction
- Involved in development of brochure & educational material

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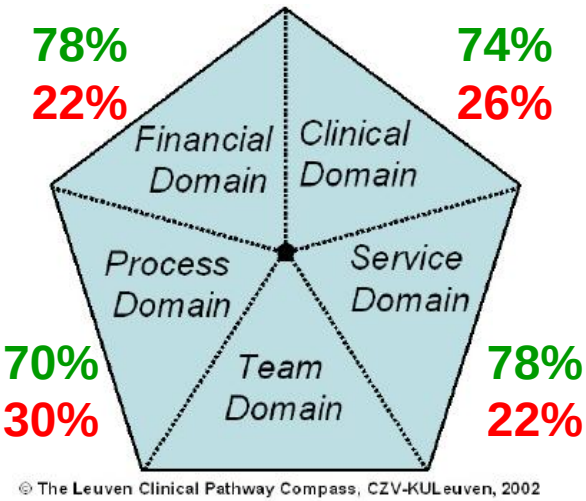
# 4.4. Use of Indicators

| Modus/Country | Clinical | Financial | Service | Team | Process |
|---|---|---|---|---|---|
| Australia | YES | YES | YES | NO | YES |
| Austria | YES | YES | YES | NO | NO |
| Belgium | YES | YES | YES | YES | YES |
| Canada | YES | YES | YES | YES | YES |
| China | NO | YES | NO | NO | YES |
| Denmark | YES | NO | YES | NO | NO |
| England | YES | YES | YES | YES | YES |
| Estonia | YES | YES | YES | YES | YES |
| Germany | YES | YES | YES | NO | YES |
| Guernsey | NO | YES | YES | NO | NO |
| India | NO | NO | YES | NO | NO |
| Italy | YES | YES | YES | NO | YES |
| Netherlands | YES | YES | YES | YES | YES |
| New Zealand | YES | YES | YES | NO | YES |
| Saudi Arabia | YES | YES | YES | YES | YES |
| Scotland | YES | NO | YES | NO | YES |
| Singapore | YES | YES | NO | NO | YES |
| Slovenia | NO | NO | NO | NO | YES |
| Spain | NO | YES | YES | NO | NO |
| Switzerland | NO | NO | NO | NO | NO |
| UAE | YES | YES | NO | NO | NO |
| USA | YES | YES | YES | NO | YES |
| Wales | YES | YES | YES | NO | YES |
| EPA survey | 74% | 78% | 78% | 26% | 70% |

% of countries
Use & do not use
following measures




26%
74%

***If you can't measure it, you can't manage it !***

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# 4.5. Knowledge Sharing on Pathways

| Knowledge | Within Team | Within organisation | Between organisations | Regional | National | International |
|---|---|---|---|---|---|---|
| Belgium | YES | YES | YES | YES | YES | YES |
| Guernsey | YES | YES | YES | YES | YES | YES |
| England | YES | YES | YES | YES | YES | YES |
| Netherlands | YES | YES | YES | YES | YES | YES |
| Scotland | YES | YES | YES | YES | YES | YES |
| Singapore | YES | YES | YES | YES | YES | YES |
| Wales | YES | YES | YES | YES | YES | YES |
| Canada | YES | YES | YES | YES | YES | NO |
| Australia | YES | YES | YES | YES | NO | NO |
| New Zealand | YES | YES | YES | NO | YES | NO |
| Denmark | YES | NO | YES | NO | YES | NO |
| Slovenia | YES | YES | NO | NO | YES | NO |
| Estonia | NO | YES | YES | NO | NO | NO |
| Germany | YES | YES | NO | NO | NO | NO |
| Italy | YES | YES | NO | NO | NO | NO |
| Switzerland | YES | NO | NO | YES | NO | NO |
| USA | YES | YES | NO | NO | NO | NO |
| Austria | YES | NO | NO | NO | NO | NO |
| China | YES | NO | NO | NO | NO | NO |
| Saudi Arabia | YES | NO | NO | NO | NO | NO |
| India | NO | NO | NO | NO | NO | NO |
| Spain | NO | NO | NO | NO | NO | NO |
| UAE | NO | NO | NO | NO | NO | NO |
| EPA Survey | 78% | 65% | 52% | 43% | 48% | 30% |

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# 4.6. % of pathways supported by EBM guidelines

| % supported by EBM guidelines | Country |
|---|---|
| 81-100% | Australia - Singapore - Wales |
| 61-80% | Canada - England - Scotland |
| 41-60% | Austria - Guernsey - Italy - New Zealand - USA |
| 21-40% | Saudi-Arabia |
| 11-20% | Belgium - China - Denmark - Germany - Spain |
| 1-10% | Estonia - Netherlands - Slovenia - Switzerland - UAE |
| Not supported | India |

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# 4.7. Supported by Government

| Government Support | Country | How |
|---|---|---|
| YES | Australia | Funded projects |
| | Belgium | Funded projects |
| | Canada | Support by provincial government |
| | China | (no information) |
| | Denmark | Funded projects |
| | England | NELH - Modernization Agency – IT |
| | Estonia | Legislation |
| | Italy | Regional programmes & support |
| | Singapore | Non financial support but encouragement |
| | Spain | (no information) |
| | Switzerland | Subsidy for networking |
| | USA | JCAHO - CMS - DoH in each State |
| | Wales | All Wales pathways |
| NO | Austria - Germany - Guernsey - India - Netherlands - New Zealand - Saudi-Arabia - Scotland - Slovenia - UAE | |

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# GLOBAL CONCLUSIONS (2)

- **Clinical pathways are:**
  - A multidisciplinary tool to improve the quality and efficiency of evidence based care
  - It is used as a communication tool between professionals to manage and standardise the outcome oriented care
- **BUT:**
  - Not all disciplines are always involved
  - Clinical / Quality Indicators are not always used
  - Pathways are not always supported by EBM guidelines
  - Most teams are using own concept and methodology
  - Management is not involved everywhere

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***There is a future for clinical pathways but … we've only just begun!!!!***