Welcome to the survey for World’s Best Smart Hospitals

In the fall of 2023, Newsweek and Statista will, for the third time, award the “World’s Best Smart Hospitals”. The top hospitals will be published both in the Newsweek print edition and on “newsweek.com”.

Smart Hospitals use **state-of-the-art technology** to fundamentally rethink how care is delivered. **Latest virtual care and digital imaging technology, AI-driven decision support and robotics**, all interconnected within the hospital network are used to redefine how healthcare is delivered, improving healthcare outcomes, and hospital efficiency.

Further information pertaining to the methodology and/or terms of participation please contact smarthospitals@statista-research.com.

Regarding data protection: Please feel free to contact our data protection officer: dataprotection@statista.com and check www.statista.com/dataprotection for further information regarding our rules on deleting data, transferring data or working with third parties regarding your data.

**Please note**

You may consider collecting the required information prior to starting the survey.

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1. **Eligibility Criteria**

We will start with some basic questions to ensure that your hospital is indeed a potential candidate for World’s Best Smart Hospitals 2024.

**Question 1.1**

How many inpatient beds does the hospital have?

[Textfield]

**Question 1.2**

Is the hospital an acute care hospital?

[Yes/No]
2. **Information about the hospital**

**Question 2.1**
Please state the legal name of the hospital.
[Textfield]

**Question 2.2**
Please state the address details of the hospital below.
- Street: [Textfield]
- City: [Textfield]
- Postcode: [Textfield]
- Country: [Textfield]
- URL: [Textfield]

3. **Electronic functionalities**

**Question 3.1**
Is a hospital information system/Electronic Medical Record (HIS/EMR) implemented in your hospital?
[Yes/No]

If Yes: Please indicate whether the following subsystems are integrated in the HIS/EMR:

a) Physician documentation  
b) Nursing documentation  
c) Medication order entry  
d) Radiology information system  
e) Laboratory information system  
f) Pathology information system  
g) Pharmacy information system  
h) Emergency room information system  
i) Patient portal  
j) Other, please specify: [Textfield]

**Question 3.2**
Please indicate whether the following processes are implemented in your hospital via the HIS/EMR or a patient portal:

a) Exchange of patient data with external providers  
b) Exchange of patient data within the hospital e.g. other departments  
c) Access for the patient to view, edit and submit patient information e.g. discharge letters
d) Possibility for patients to contact hospital via secure messaging tool e.g. to book a new appointment

e) Collection and analysis of Patient-Reported-Outcome Measures (“PROMS”) during and after the hospital visit

f) Other, please specify: [Textfield]

4. **Telemedicine**

**Question 4.1**

**Please indicate to what extent the hospital has implemented the technical equipment to conduct teleconsultations with other medical doctors and specialists e.g. tumour boards and televisits?**

[Drop-Down]
Not implemented
Partially implemented (used in some units)
Fully implemented (used across the hospital)
Do not know

**Question 4.2**

**Please indicate to what extent the hospital has implemented the technical equipment to conduct online consultations with patients via the hospital information system?**

[Drop-Down]
Not implemented
Partially implemented (used in some units)
Fully implemented (used across the hospital)
Do not know

5. **Additional topic**

**Question 5**

In order for your hospital to be recognized as a smart hospital, please provide information on at least one of the following technologies that are implemented: Digital Imaging, Artificial Intelligence or Robotics.

For which category would you like to provide information on your hospital:

[check box]
Artificial Intelligence
Digital Imaging
Robotics
6. **Digital Imaging [Optional]**

**Question 6.1**

Please indicate to what extent the following process is implemented at your hospital:
The hospital uses virtual reality and augmented reality tools to support diagnosis, therapy and treatment of patients (including navigation in surgery, rehabilitation, pain/anxiety treatment, etc.).

Not implemented
Partially implemented (used in some units)
Fully implemented (used across the hospital)
Do not know

**Question 6.2**

Please indicate whether the following Digital Imaging technologies are used in your hospital. Please select all that apply.

a) Digital Pathology e.g. share pathology orders, exam results and images
b) Digital Radiology e.g. share radiology orders, exam results and images
c) None of the above

7. **Artificial Intelligence [Optional]**

**Question 7.1**

Please indicate to what extent the following process is implemented at your hospital:
The hospital uses artificial intelligence and machine learning tools for data analysis and evaluation in to predict medical risks for patients and support physicians in diagnosis decision.

Not implemented
Partially implemented (used in some units)
Fully implemented (used across the hospital)
Do not know

**Question 7.2**

Please indicate in which areas AI-based technologies are used in your hospital. Please select all that apply.

a) Research (e.g. clinical trials)
b) Radiology, Pathology and Oncology (e.g. anomaly detection)
c) Surgery (e.g. risk assessment)
d) Medication Management (e.g. drug therapy safety tests)
e) Therapy planning (e.g. decision support)
f) Resource planning (e.g. forecast of required personnel)
g) Controlling (e.g. identification of outstanding payments)
h) AI-based applications are currently not in use

8. **Robotics [Optional]**

**Please select the level of implementation of the robotic surgery in your hospital.**
Indicate whether it is evaluated and for please provide an example of implementation in your hospital (if it applies).

Note: Select "Fully Implemented" if robotic surgery is implemented in 4 or more fields of surgery. Select "Partially Implemented" if it is implemented in 3 or less fields of surgery.

<table>
<thead>
<tr>
<th>Technology</th>
<th>Implementation</th>
<th>Evaluated</th>
<th>Example</th>
</tr>
</thead>
</table>
| Robotic Surgery                | [Dropdown]
Not implemented
Partially implemented
Fully implemented
Do not know             | [Dropdown]
Yes
No                   | [Textfield] |

Note: Select "Fully Implemented" if the technologies are implemented across the hospital. Select "Partially Implemented" if the technologies are implemented in some units of the hospital.

<table>
<thead>
<tr>
<th>Technology</th>
<th>Implementation</th>
<th>Evaluated</th>
<th>Example</th>
</tr>
</thead>
</table>
| Robotics used for transportation | [Dropdown]
Not implemented
Partially implemented
Fully implemented
Do not know             | [Dropdown]
Yes
No                   | [Textfield] |

| Robotics used for cleaning       | [Dropdown]
Not implemented
Partially implemented
Fully implemented
Do not know             | [Dropdown]
Yes
No                   | [Textfield] |

| Robotics used for patient support| [Dropdown]
Not implemented
Partially implemented
Fully implemented
Do not know             | [Dropdown]
Yes
No                   | [Textfield] |
9. Recruitment Efforts

How has the implementation of digital technologies impacted the recruitment of new talent for your hospital?

a) It had a strong positive impact
b) It had a positive impact
c) It didn't have an impact
d) It had a negative impact

10. Contact Details

Question 9.1

Please name a contact person within your hospital in case more information is needed:

Title: [Textfield]
First name: [Textfield]
Middle Name: [Textfield]
Surname: [Textfield]
Function: [Textfield]
Email: [Textfield]
Phone No.: [Textfield]

11. Final Information

Please note we can include your survey responses in the evaluation only once your participation has been validated and the accuracy of the information provided has been verified.

To validate, please provide a valid business email address from an authorized person (Managing Director/Senior Management or Chief Information/Digital Officer).

No personally identifiable data will be shared, and all data will be collected and evaluated within the scope of relevant regulations. This verification serves to prevent fraud. Please select an option:

[Selection]

I agree to validate the survey using my work e-mail address

I don't want to give an e-mail address, so my answers cannot be used for evaluation
Please Enter the required information here:

Name of Authorized Person to verify information: [Textfield]
Form of Address: [Textfield]
Role: [Textfield]
Business e-mail: [Textfield]
Phone No.: [Textfield]
Place/Date: [Textfield]

I hereby confirm the accuracy of the information provided in this questionnaire and agree that the information may be used for the ranking of "World's Best Smart Hospitals 2023" published by Statista and Newsweek.

[Yes/No]

You have now reached the end of the survey. Thank you for participating. If you would like to leave any comments about this survey, please use the text field below:

[Textfield]