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| **Survey among orthopedic surgeons** |

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| This **anonymous** conducted survey serves to investigate the relation of procurement of orthopaedic high-risk medical devices and its effects on orthopaedic clinical procedures. |

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| Thank you contributing this research and answering the following questionnaire that will require **approximately 8 minutes**. We kindly ask you to indicate your answers in the highlighted areas.  If you wish to contact us before or during you are answering questions of this questionnaire you may contact the following person:     * Main researcher: Myriam Lingg (Email: myriam.lingg@unibas.ch) * Supervisor (Mexico): Dr. Luis Duran Arenas (Email: lduran19@liceaga.facmed.unam.mx) * Supervisor (Switzerland): Dr. Kaspar Wyss (Email: kaspar.wyss@unibas.ch)  |  | | --- | |  | |

**>>> Thank you that you participate in this survey. We appreciate a lot your support and will be pleased to share with you our findings after finishing this investigation.**

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| **Question 1** |
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| In which **public sector** are you mainly practicing orthopaedic surgeries? Please indicate with an X your answer. |

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|  | | IMSS | | ☐ |  | PEMEX | ☐ |  | SEMAR | ☐ | |
|  | |  | |  |  |  |  |  |  |  | |
|  | | ISSSTE | | ☐ |  | State services | ☐ |  | Others | ☐ | |
|  | |  | |  |  |  |  |  |  |  | |
|  | | SEDENA | | ☐ |  | SSA | ☐ |  | Only private | ☐ | |
| **Question 2** | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| Where do you realize your main professional work? | | | | | | | | | | | | |
|  | | | | | | | | | | | |
| State |  | | | | | | | | | |
|  | | | | | | | | | | |
| Zip code |  | | | | | | | | | |
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| **Question 3** | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | |
| To which level of medical care attention does your institution belongs to? Please distinguish between “level 1 = family unit”, “level 2 = general hospital” and “level 3 = UMAE or specialized unit” | | | | | | | | | | | | | |
|  | | | | | | | | | | | | |
|  | | Level 1 “Familiar” | ☐ |  | Level 2 “General” | ☐ |  | Level 3 “Especializada” | ☐ |  | Private | ☐ |

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| **Question 4** |
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| Since **how many years** are you practicing in the field of orthopaedic surgeries? |

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| Number of years: |  |

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| **Question 5** |
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| Please describe the **responsibilities of key persons** for the procurement process of your public sector? Please indicate with an X your answer. |

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|  |  | … material planning |  | … quality of supplier service |  | … medical device technology |  | … clinical efficacy of deivice |  | … No opinion | |
|  | | | | | | | | | | |
| Director of hospital is involved with regards to … |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  |  |  |  |  |  |  |  |  |  |  | |
| Head of orthopaedic unit is involved with regards to … |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  |  |  |  |  |  |  |  |  |  |  | |
| Head of specialized sub-unit is involved with regards to … |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  |  |  |  |  |  |  |  |  |  |  | |
| Specialized surgeon is involved with regards to … |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  |  |  |  |  |  |  |  |  |  |  | |
| Resident is involved with regards to … |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |

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| **Question 6** |
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| Please describe **your role** in the procurement process of the public sector and the decision-making? Please indicate with an X your answer. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | |  | Fully agree |  | Agree |  | Partially agree |  | Little agree |  | Don’t agree |  | No opinion | |
|  |  |  | | | | | | | | | | | | |
| I can influence the material planning | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| I can influence the clinical efficacy of a medical device | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| I can influence the medical device technology | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| My opinion on material planning (volumes, sizes, etc.) gets considered | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| My opinion on the clinical efficacy of medical device gets considered | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| My opinion on the medical device technology gets considered | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| The decision-making complies with my clinical needs concerning material planning | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| The decision-making complies with my clinical needs concerning clinical efficacy of medical device | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| The decision-making complies with my clinical needs concerning medical device technology | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |

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| **Question 7** |
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| Please describe **how much you perceive** your clinical practice and patient outcome affected by the following aspects? Please indicate with an X your answer. |

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|  | | |  | Fully agree |  | Agree |  | Partially agree |  | Little agree |  | Don’t agree |  | No opinion | |
|  |  |  | | | | | | | | | | | | |
| Quality of medical device - material failure | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Quality of medical device - effectiveness of medical device | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Product portfolio - medical device does not meet patients’ needs | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Product portfolio - obsolete medical device technology | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Accompanying services – incomplete provision of sets | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Accompanying services – delayed provision of implants and instruments | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |

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| **Question 8** |
|  |
| Please describe **how much you perceive an impact** of the procurement process on your clinical practice and patient outcome? Please indicate with an X your answer. |

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|  | | |  | Fully agree |  | Agree |  | Partially agree |  | Little agree |  | Don’t agree |  | No opinion | |
|  |  |  | | | | | | | | | | | | |
| … wrong material planning | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| … low clinical effectiveness of medical device | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| … limited product portfolio | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| … inferior medical device technology | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| … low quality of instruments | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| … sub-standard services received from medical device supplier | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |

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| **Question 9** |
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| Please describe **how much you can solve** these problems without failing in your clinical practice? Please indicate with an X your answer. |

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|  | | |  | Solve without difficulty |  | Solve with Little difficulty |  | Solve with lots of difficulty |  | Almost cannot be solved |  | Cannot be solved |  | No opinion | |
|  |  |  | | | | | | | | | | | | |
| Quality of medical device - material failure | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Quality of medical device - effectiveness of medical device | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Product portfolio - medical device does not meet patients’ needs | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Product portfolio - obsolete medical device technology | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Accompanying services – incomplete provision of sets | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Accompanying services – delayed provision of implants and instruments | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |

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| **Question 10** |
|  |
| Do the following aspects **contribute to an improvement** of your clinical practice and the patient outcome? Please indicate with an X your answer. |

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|  | | |  | Fully agree |  | Agree |  | Partially agree |  | Little agree |  | Don’t agree |  | No opinion | |
|  |  |  | | | | | | | | | | | | |
| Tender culture: Sustainability and long-term clinical evidence of medical devices | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Digital access to clinical data from hospital to national level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Reporting system on clinical efficacy of medical devices on hospital and national level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Diffusion of scientific investigation on hospital and national level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Cooperation between orthopaedic societies, academic level and government units | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Integral strategy approach between government units to control and monitor quality on clinical practice level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |

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| **Question 11 (end of questions)** | | | | | | | | | | | | | | | | |
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| Please describe how you perceive that the following **aspects are considered** in your public sector. Please indicate with an X your answer. | | | | | | | | | | | | | | | | |
|  | | |  | Strongly considered |  | Considered |  | Partially considered |  | Almost not considered |  | Not considered |  | No opinion | |
|  |  |  | | | | | | | | | | | | |
| Tender culture: Sustainability and long-term clinical evidence of medical devices | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Digital access to clinical data from hospital to national level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Reporting system on clinical efficacy of medical devices on hospital and national level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Diffusion of scientific investigation on hospital and national level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Cooperation between orthopaedic societies, academic level and government units | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |
|  | | |  |  |  |  |  |  |  |  |  |  |  |  | |
| Integral strategy approach between government units to control and monitor quality on clinical practice level | | |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ |  | ☐ | |