FRIDAY SEPTEMBER 17, 2021

07.30-08.30  Live (in-person) Registration and Working Coffee
07.30-08.30  Virtual Registration

08.30-08.45  Opening Statement
             Giuseppe Costanzo, Italy

08.45-09.00  Welcome and Meeting Presentation
             Bernardo Misaggi, Italy
             Opening address by the President of the Senate
             Maria Elisabetta Alberti Casellati

09.00-09.15  Inaugural SPINE20 2020 and collaboration with G20 and G20 Civil Engagement Groups
             Chairs: Giuseppe Costanzo, Italy
                   Bernardo Misaggi, Italy

             SPINE20 Inaugural Meeting in Riyadh; a turning point in raising the awareness in spine care.
             Sami AlEissa, Saudi Arabia, Thomas Blattert, Germany

09.15-09.30  SPINE20 purpose and projects overview 2020-2021
             Chair: Frank Kandziora, Germany

09.15        SPINE20: how and why it came to be!
             Eric Muehlbauer, USA

09.17        Introduction of the SPINE20 Education Committee: Mission and goals for the future
             Jörg Franke, Germany, Michael Piccirillo, Switzerland

09.30-09.45  SPINE20 Recommendations and publication 2020-2021
             Chair: Sami AlEissa, Saudi Arabia

09.30        Why it is important to publish and to be recognized
             Margareta Nordin, USA

09.37        The process of SPINE20 recommendations and publications
             Koji Tamai, Japan
09.45-10.00  Why SPINE20 is important to new societies?
Chairs: Thomas Blattert, Germany
        Eric Muehlbauer, USA

09.45  SPINE20 bridging the New Societies to the Government by recommendations
        Bambang Darwono, Indonesia

09.52  SPINE20 The affable catalyst and think tank resource which can help empower your Society
        for accomplishing strategic objectives
        Harvinder S. Chhabra, India

10.00-10.30  Keynote lecture – Crucial issues in University teaching and medical education in pandemic emergencies
Chair: Giuseppe Costanzo, Italy
Key-note speaker: Eugenio Gaudio, Italy

10.30-10.45  Break

10.45-11.00  Introduction to Symposia

        The international collaboration in SPINE20 symposia and defining recommendations
        Luca Ricciardi, Italy, Giovanni Andrea La Maida, Italy

11.00-12.30  Symposium 1: SPINE CARE A LUXURY OR NECESSITY
Chairs: Eric Truumees, USA
        Bambang Darwono, Indonesia
        Frank Kandziora, Germany

11.00  Introduction and purpose of symposium
        Eric Truumees, USA

11.05  Summary of the global burden of Spine Disease including fiscal and disability related matters
        Frank Kandziora, Germany

11.15  Summary and findings of global burden of low back and neck pain studies
        Pierre Côté, Canada

11.25  Impact of spine disease in developing world
        Scott Haldeman, USA

11.35  The importance of improved management of spinal trauma and deformity; The role of early/aggressive spine care as less expensive from a society-wide perspective than a laissez faire approach
        Eric Truumees, USA

11.50  MISS solving the Burden of Spine Problems during Pandemic. It is not a luxury
        Bambang Darwono, Indonesia
12.00  Effect of spine problems on prosperity
Scott Haldeman, USA

12.10  Panel discussion - Q&A
Frank Kandziora, Germany, Bambang Darwono, Indonesia

12.25  Conclusions and Recommendations – Spine care is a necessity and becomes a burden if neglected
Frank Kandziora, Germany

12.30-13.00  Keynote lecture - New policies in the Healthcare system after COVID pandemic
Chair: Bernardo Misaggi, Italy
Key-note speaker: Letizia Moratti, Italy

13.00-14.00  Lunch Break

14.00-15.30  Symposium 2: SPINE REHABILITATION MEANS PROSPERITY
Chairs: Pierre Côté, Canada
       Hana Alsobayel, Saudi Arabia
       Marco Campello, USA

14.00  Introduction and purpose of symposium
Pierre Côté, Canada

14.06  Evidence-based rehabilitation is necessary to promote prosperity in our communities
Stefano Negrini, Italy

14.18  The need for spine rehabilitation in low-and middle-income countries
Rajani Mullerpatan, India

14.30  How evidence-based occupational rehabilitation of spine disorders can improve the economic welfare of our societies?
Han Anema, The Netherlands

14.42  Implementation of return-to-work strategies to health and economic welfare of workers with spinal disorders
Doug Gross, Canada

14.54  Panel discussion - Q&A
Marco Campello, USA, Hana Alsobayel, Saudi Arabia

15.25  Conclusions and Recommendations
Pierre Côté, Canada
Symposium 3: SPINE HEALTH AND AGING
Chairs: Marco Brayda-Bruno, Italy
Markus Arand, Germany
Raghava D. Mulukutla, India

Panel 1: The Osteoporosis Challenge

15.30
Screening strategies in a global perspective
L. Rachid Salmi, France

15.38
Therapy and prevention
Salvatore Minisola, Italy

15.46
Surgical options in different economical settings
Markus Arand, Germany

15.54
Panel discussion - Q&A
Raghava D. Mulukutla, India

Panel 2: The degenerative and ageing challenge

16.07
When & what activity/exercises vs when and how to get stability
Fabio Zaina, Italy

16.15
Surgical options in degenerative aged spine; when less is more and when to be aggressive
Marco Brayda-Bruno, Italy

16.23
Evidence of complications and frailty assessment in elderly
Raghava D. Mulukutla, India

16.31
Panel discussion - Q&A
Markus Arand, Germany

16.44
Conclusions and Recommendations
Marco Brayda-Bruno, Italy

19.30
Social Dinner
SATURDAY SEPTEMBER 18, 2021

08.00-08.15  Welcome Day 2 of SPINE20
Giuseppe Costanzo, Italy, Bernardo Misaggi, Italy

08.15-09.45  Symposium 4: BURDEN UNDERSERVED COMMUNITIES
Chairs: Jamiu Busari, The Netherlands
Harvinder S. Chhabra, India
Francesco Ciro Tamburrelli, Italy

08.15  Welcome and Purpose of the Symposium
Francesco Ciro Tamburrelli, Italy

08.21  Defining the Problem
Ian Vlok, South Africa

08.31  Challenges uncovered.
Kwadwo Poku Yankey, Ghana

08.41  Is it a viable option for poor countries? What can we learn from the world?
Margareta Nordin, USA

08.51  Developing long term region specific realistic goals
Anand Bang, India

09.01  Panel discussion - Q&A
Harvinder S. Chhabra, India

09.40  Conclusions and Recommendations
Jamiu Busari, The Netherlands

09.45-10.15  Break

10.15-11.45  Symposium 5: ACHIEVING EFFECTIVENESS
Chairs: Massimo Balsano, Italy
William Sullivan, USA
Fahad Alhelal, Saudi Arabia

10.15  Introduction and Purpose of Symposium
Massimo Balsano, Italy

10.20  International screening for Spine deformity
Massimo Balsano, Italy

10.30  Spine Care in workplaces
Fahad Alhelal, Saudi Arabia

10.40  Achieving effectiveness through a multidisciplinary approach to Spine Care
Edward Dohring, USA
10.50 Teaching non-surgical Spine Care in limited resource countries
William Sullivan, USA

11.00 Panel discussion - Q&A
William Sullivan, USA, Fahad Alhelal, Saudi Arabia

11.40 Conclusions and Recommendations
Massimo Balsano, Italy

11.45 -12.15 Keynote lecture - Order of Malta worldwide commitment for a fair and sustainable Healthcare
Chair: Carlo Ruosi, Italy
Key-note speaker: Dominique Prince de la Rochemouflaude-Montbel

12.15-13.30 Lunch Break

13.30-15.00 Symposium 6: FUTURE PERSPECTIVE GLOBAL
Chairs: Yahya Alqahtani, Saudi Arabia
Shanmuganathan Rajasekaran, India
Dominique Rothenfluh, United Kingdom

13.30 Welcome and introduction to symposium
Dominique Rothenfluh, United Kingdom

13.36 Artificial Intelligence Vs Human Intelligence – Will there be a winner?
Christopher Ames, USA

13.46 Disc regeneration and biological research- Is the future promising?
Kenneth Cheung, Hongkong

13.56 Surgical navigation system and the future
Shanmuganathan Rajasekaran, India

14.06 Breaking down barriers with telehealth-care delivery is changing
Yahya Alqahtani, Saudi Arabia

14.16 Closing the gender gap in Ortho and Spine surgeons: challenges and perspectives
Maria Silva Spinelli, Italy

14.26 Panel discussion - Q&A
Shanmuganathan Rajasekaran, India

14.55 Conclusion and Recommendations
Yahya Alqahtani, Saudi Arabia

15.00-15.15 Break
15.15-16.30 Discussion recommendations and voting SPINE20 2021
Chairs: Giuseppe Costanzo, Italy
         Sami AIEissa, Saudi Arabia
         Eric Muehlbauer, USA
Discussion
Margareta Nordin, USA, Paulo Pereira, Portugal
Recorder: Koji Tamai, Japan

16.30-16.45 Welcome to Indonesia
Chair: Giuseppe Costanzo, Italy

Speaker: Bambang Darwono, Indonesia

16.45-17.00 Closing Ceremony SPINE20 2021
Giuseppe Costanzo, Italy, Bernardo Misaggi, Italy