

12th EFSPI Stat Leaders Meeting

Wednesday, 30th June 2021

Date:

Topic: Career Development and Leadership Skills for Biostatisticians Break-out session

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Day 1 Break-out session

Group A	Group B	Group C	Group D	Group E
Frank Fleischer - notetaker	Chrissie Fletcher	Bruno Boulanger	Anna Karina Trap Huusom	Armin Schueler
Frank Langer	Daniele Compagnone - notetaker	David Wright - notetaker	Annamaria Muraro - notetaker	Giacomo Mordenti
Maria Dilleen - presenter	Emmanuel Zuber	Katrin Kupas	Christoph Gerlinger - presenter	Hans Ulrich Burger
Maylis Coste	Jens-Otto Andreas - presenter	Mette Milsgaard - presenter	CRAIG MCILLONEY	Michael O'Kelly
Rene Kubiak	Justine Rochon	Roland MARION-GALLOIS	Lars Endahl	Olavi Kilkku - notetaker
Stefan Driessen	Mark Whitlock	Tina Christiansen	Simon Cleall	Torsten Westermeier - presenter



GROUP X Career Development and Leadership Skills for Biostatisticians

What should we do more of to enhance statistical leadership skills?

• Please add your notes...

How can EFSPI support?

• Please add your notes...

Other reflections

• Please add your notes...

Questions for the panel

• ...



Back-up material Survey Results: Statistical Leadership

- 1. Number of employees in your global Biostatistics function?
- 2. What are currently the main development activities for statisticians in your organisation?
- 3. Which activities for statisticians would you like to emphasize more in your organisation?
- 4. How does your organisation approach 'statistical leadership'?
- 5. Did the EFPSI Statistical Leaders discussions / slides from 2019 help in your efforts to nurture 'statistical leadership'?
- 6. Would you like EFSPI to support future development of leadership skills for statisticians?
- 7. Any other comments or thought around leadership development among statisticians you would like to share?

1. Number of employees in your global Biostatistics function?

Please select one of the following.

	Response Percent	Response Total
0 - 25	26.09%	6
25 - 50	17.39%	4
50 - 100	4.35%	1
> 100	52.17%	12
	Answered	23
	Skipped	0





2. What are currently the main development activities for statisticians in your organisation (this can be in terms of courses, self-learning etc.)?

	Response	Response	Other (please specify):
	Percent	Total	Innovative designs, statistical consultancy, simulation, specification preparation for
Statistical methodology & application	91.30%	21	programmers
Statistical Leadership	78.26%	18	2 intrapeneurial mindset
Communication skills	52.17%	12	Integrated Evidence generation strategies e.g. integrating RCT with RWD, accelerating clinical
Therapy area understanding	47.83%	11	development plans etc
Decision making skills	47.83%	11	Quantitative methods used to inform decision making, e.g. probability of success (assurance),
Regulatory interaction	43.48%	10	probability of technical and regulatory success;
Influence skills	43.48%	10	Portfolio analytics statistics support, e.g. deriving eNPV based on attributes of the target product
Organisational understanding	39.13%	9	profile;
General pharma business understanding	34.78%	8	3
Project management skills	34.78%	8	Business Development consultation skills
Presentation skills	34.78%	8	Model informed drug development (MIDD) in partnership with Clinical Pharmacology and
Agile methodology	34.78%	8	Modelling and Simulation experts
Machine learning	34.78%	8	Translational statistics and developing prediction models between pre-clinical and clinical
Negotiation skills	30.43%	7	disease models
Storytelling	30.43%	7	
Artificial intelligence	26.09%	6	Personalised medicine and identifying and assessing potential biomarkers
Networking skills	21.74%	5	4 Leadership (general)
Other (please specify):	17.39%	4	
	Answered	23	
	Skipped	0	

Please select those that are applicable.

nership with Clinical Pharmacology and	
models between pre-clinical and clinical	
ssing potential biomarkers	



3. Which of the below development activities for statisticians would you like to emphasize more in your organisation?

	Response Percent	Response Total	
Statistical Leadership	73.91%	17	
Influence skills	52.17%	12	
Communication skills	47.83%	11	
Decision making skills	30.43%	7	
Regulatoryinteraction	26.09%	6	
Presentation skills	26.09%	6	
Negotiation skills	21.74%	5	
General pharma business understanding	17.39%	4	
Storytelling	13.04%	3	
Organisational understanding	8.70%	2	
Other (please specify):	8.70%	2	
	Answered	23	
	Skipped	0	
Other (please specify):			
1 Basic medical/therapuetic area knowledge, basic knowledge in biology/physiology			
2 Therapy area understanding			

Please select three topics.

4. How does your organisation approach 'statistical leadership'?

Please select those that are applicable.

Response Response Percent Total We offer individual courses to stimulate 43.48% 10 statistical leadership We encourage listening to relevant 43.48% 10 podcasts, attending conferences etc. We send people to external programs 39.13% 9 focusing on leadership skills We have a career development programme for statisticians focusing on leadership 17.39% 4 skills for specialists We have not yet launched any statistical 17.39% 4 leadership initiatives Other (please specify): 17.39% 4 Answered 23

Other (please specify):

1 We have many soft skill trainings in place and as well as specific onboarding to leadership roles we look to mentor staff on projects

2 internal mentoring

We are in the process of developing a statistical leadership program.

3 We would support sending individuals to an external program, e.g. EFSPI, to encourage external networking, sharing experiences and best practices

4 We leverage the ASA statistical leadership programme, among others, as part of our internal programme

0

Skipped



5. Did the EFPSI Statistical Leaders discussions/slides from 2019 help in your efforts to nurture 'statistical leadership'?

	Response Percent	Response Total
Yes, a lot	18.18%	4
Yes, a little	27.27%	6
No, not really	22.73%	5
No, we have not yet launch any statistical leadership initiatives	18.18%	4
No, we are not aware of the above mentioned discussions/slides	13.64%	3
	Answered	22
	Skipped	1

https://www.efspi.org | Please, select one of the following.

6. How does your organisation approach 'statistical leadership'?

Please select those that are applicable.

			Response Percent	Response Total
Yes	, via courses		56.52%	13
Yes	, via inspirational podcasts or seminars		82.61%	19
No,	we don't see a need for that		4.35%	1
-	es, what is your personal commitment to port it?		47.83%	11
			Answered	23
			Skipped	0
lf ye	es, w hat is your personal commitment to supp	ort it?		
1	Happy to help participate, create material and	l present		
2	2 Willing to invest time into this			
3	3 Consider to set up SIG which would allow engagement of experienced statistical project leads			
4	4 I will continue to champion this approach internally			
5	5 Our organisation can offer speakers			
6	Fully committed, we cannot contribute to drug development and support decision making without leadership			
7	 Happy to support both both ends. 1) Motivating the internal colleagues to attend and listen to these materials, 2) Providing some material by my colleagues or myself 			
8				
9	- To make this obligatory part of the statisticians development program. - To have more discussions with the statisticians to get them ""out the box""			
10	PSI have run a 'fireside' lunchtime chat where 2 leaders shared their statistical leaders stories as a motivation to others. This was well received and perhaps could be something EFSPI considers.			as a motivation
11	11 Sharing some of our materials or recordings (if possible)			



7. Any other comments or thought around leadership development among statisticians you would like to share?

Open-Ended Question			Everyone can be a leader, this is a key skill to develop, nuture and continue to advance
•	I It's essential to move statisticians out of the number cruncher corner		throughout a career.
4	Stat leadership is key to drive change and innovation, reduce business risks and increase probability of success. Leadership trainings / mentoring programs should be part of the stat development from first steps.	5	Whilst there are many key principles about leadership that are fundamental to understand, the context and Pharma world is dynamic so the application of leadership skills needs to reflect this changing environment.
	Very important topic which is essential for 1) improving our role, standing and influence within the broader organisation 2) steering in a reasonable fashion our work regarding content and amount.		Effective leadership goes hand in hand with many of the skills listed above e.g. communication skills, influencing skills, networking etc.
3	3 Statisticians are often by training not very familiar with these topics (and sometimes also not comfortable).		Develop further 1) some technical skills which are key to statistical leadership, such as good graphical practices, data visualization tools, good data science practices, causal thinking
	Management within Stats needs to fully support this and also have a clear intent towards this direction of pusing for statistical leadership. This may also mean that other topics in particular regarding operational aspects have to be de-prioritized.	6	2) the corresponding specific communication skills (how to use and leverage those tools to lead by content, how to make content accessible cross-functionally, how to lead interactive cross-functional data exploration, how to explain bias, variability, confounding, etc)
4	 as Kenneth Blanchard said: ""key to successful leadership today is INFLUENCE, not AUTHORITY"". In the agile working environment, more is possible for the individual statistician to be influential without being a leader, but then one should also have the right skills, so training that becomes even more important nowadays. 		3) listening skills and ownership: developing the understanding that statisticians have to understand the needs and thinking patterns of their partners, and they have to be aware, own and be proud of their specific and unique value (scientific rigor; structured approach to issues; ability to bridge science, technology, data, and decision making; etc)