
Needs assessment/ Engaging participants/ Tailored learning

Presentation of the data

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Results [Reporting quality]

Table 2: Needs assessment/ Engaging participants/ Tailored learning									
Needs assessment breakdown									
Needs assessment (General)	Analytical/thorough description		Local/ International needs		Needs assessment (Number of reported needs)				
	Yes	2271 (37.6%)	Local	15 (0.7%)	Not analytical	1	2	3	4
	No	3762 (62.3%)	International	2223 (99.3%)	3750 (62.2%)	1603 (26.6%)	494 (8.2%)	68 (1.1%)	118 (2.0%)
Needs assessment (origin)	Previous Activity		Survey of participants		New guidelines or research		Legislative/regulatory changes		Other
	Yes	1503 (65.8%)	Yes	927 (40.6%)	Yes	508 (22.3%)	Yes	145 (6.4%)	165 (7.2%)
	No	34.2 (35.2%)	No	1356 (59.4%)	No	1775 (77.7%)	No	2138 (93.6%)	
Engaging participants breakdown									
Methods	Engagement Method					Feedback Methods			
	Registration/ badge	Continuous	None	Other	Attendance Sheets	Printed Form	Online Form	Mixed	Other
	1838 (30.6%)	1036 (17.2%)	1142 (18.9%)	1046 (17.3%)	960 (15.9%)	3756 (62.3%)	1524 (25.3%)	353 (5.9%)	399 (6.6%)
Educational Hours	15.3±9.5	18±8.71	14.2±11.4	9.4±9.9	16.3±10.1				
Number of participants	593±1405	588±1986	403±1517	405±1338	137±355				



Results [Comparisons of needs assessment trends across different years, LEE vs. ELM, type of event, and country]

- Conferences tend to have a clearer justification of needs assessment compared to courses (926/2,322 vs. 1,131/3,239, $p < 0.01$).
- When comparing the trends of needs assessment reporting (clear justification, local/international, number of reported needs assessments) across several years we observed similar results in a statistically significant manner ($p < 0.01$).
- Same applies when comparing all the reporting parameters of needs assessment across different countries ($p < 0.01$).

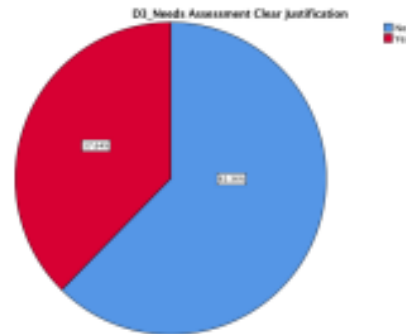




D1.0_Needs Assessment - Overview

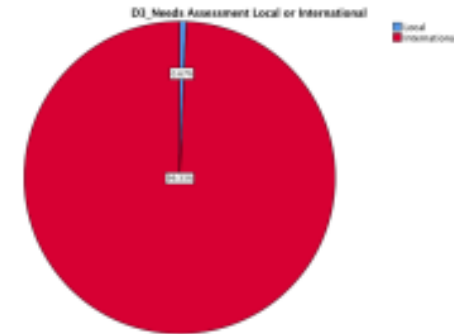
D3_Needs Assessment Clear Justification

		Frequency	Percent
Valid	No	3762	62.3
	Yes	2271	37.6
	Total	6033	100.0
Missing	System	1	.0
Total		6034	100.0



D3_Needs Assessment Local or International

		Frequency	Percent
Valid	Local	15	.7
	International	2223	99.3
	Total	2238	100.0
Missing	System	3796	
Total		6034	



D3_Needs Assessment Number

		Frequency	Percent
Valid	None	3750	62.2
	1.00	1603	26.6
	2.00	494	8.2
	3.00	68	1.1
	4.00	118	2.0
	Total		6033
Missing	System	1	
Total		6034	



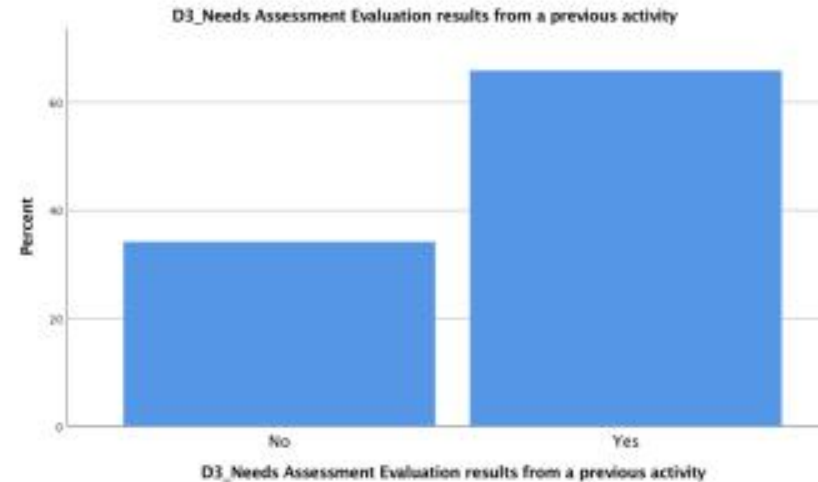
- More than 1 in 2 event doesn't have a clear justification of needs assessment
- >99% of events seem to arise from global needs reflecting the international character of the accredited events
- Where needs assessment is justified, the vast majority of the events use single justification (median=1, IQR 1-2)



D1.0_Needs Assessment – Domains

**D3_Needs Assessment:
Evaluation results from a
previous activity**

	Frequency	Percent
No	780	34.2
Yes	1503	65.8
Total	2283	100.0



D3_Needs Assessment:
Evaluation results from a
previous activity

D1_Type of the event		No	Yes	Total
Conference, Hands-on	Conference	265	670	935
	Course	376	757	1133
	Hands-on workshop	30	45	75
	Satellite Symposium	109	31	140
p<0.01, df 3		780	1503	2283

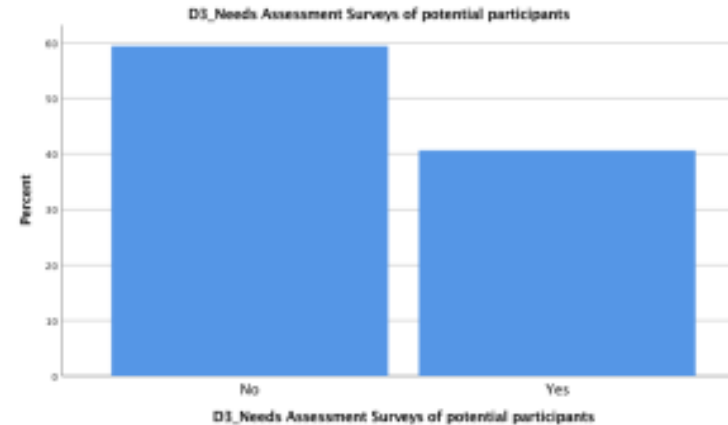
3 in 4 conferences, 2 in 3 courses, more than 1 in 2 hands-on workshops and less than 1 in 4 satellite symposia, base their needs assessment on results from previous activity



D1.0_Needs Assessment – Domains

**D3_Needs Assessment:
Surveys of potential
participants**

		Frequency	Percent
Valid	No	1356	59.4
	Yes	927	40.6
Total		2283	100.0



D1_Type of the event	D3_Needs Assessment Surveys of potential participants	D3_Needs Assessment Surveys of potential participants		Total
		No	Yes	
Conference, Hands-on	Conference	628	307	935
	Course	592	541	1133
	Hands-on workshop	40	35	75
	Satellite Symposium	96	44	140
p<0.01, df 3		1356	927	2283

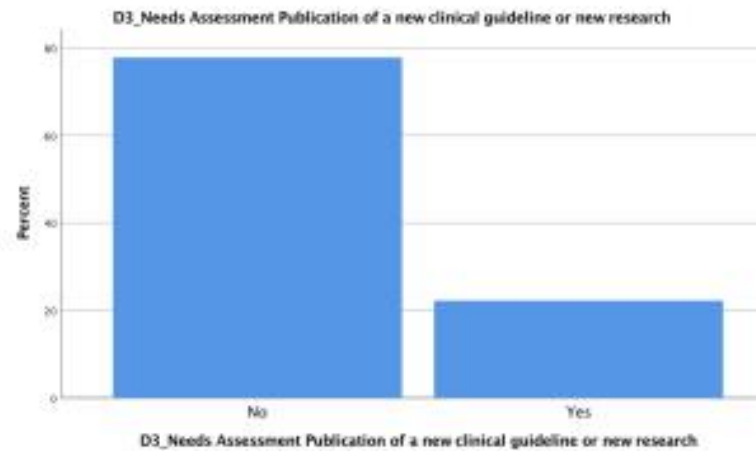
1 in 3 conferences, 1 in 2 courses, 1 in 2 hands-on workshops, 1 in 3 satellite symposia base their needs assessment on surveys of potential participants



D1.0_Needs Assessment – Domains

D3_Needs Assessment: Publication of a new clinical guideline or new research

		Frequency	Percent
Valid	No	1775	77.7
	Yes	508	22.3
	Total	2283	100.0



		D3_Needs Assessment Publication of a new clinical guideline or new research		Total
		No	Yes	
D1_Type of the event Conference, Hands-on	Conference	754	181	935
	Course	888	245	1133
	Hands-on workshop	66	9	75
	Satellite Symposium	67	73	140
p<0.01, df 3		1775	508	2283

1 in 5 conferences, more than 1 in 4 courses, 1 in 8 hands-on workshops, 1 in 2 satellite workshops initiate their activity based on "Publication of a new clinical guideline or new research"



D1.0_Needs Assessment – Domains

D3_Needs Assessment: Legislative/regulatory/orga nizational changes affecting patient care

		Frequency	Percent
Valid	No	2138	93.6
	Yes	145	6.4
	Total	2283	100.0



		D3_Needs Assessment Legislative/regulatory/organiz ational changes affecting patient care		Total
		No	Yes	
D1_Type of the event Conference, Hands-on	Conference	895	40	935
	Course	1031	102	1133
	Hands-on workshop	74	1	75
	Satellite Symposium	138	2	140
p<0.01, df 3		2138	145	2283

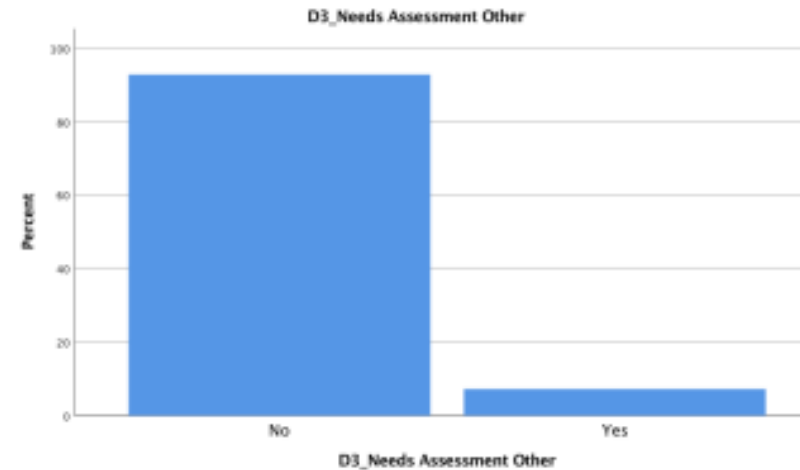
Less than 1 in 10 events initiate their activity based on Legislative/ regulatory or organizational changes affecting patient care; courses seem to encounter mostly this domain



D1.0_Needs Assessment – Domains

**D3_Needs Assessment
Other**

		Frequency	Percent
Valid	No	2118	92.8
	Yes	165	7.2
Total		2283	100.0



		D3_Needs Assessment Other		Total
		No	Yes	
D1_Type of the event Conference, Hands-on	Conference	844	91	935
	Course	1074	59	1133
	Hands-on workshop	67	8	75
	Satellite Symposium	133	7	140
p<0.01 df 3		2118	165	2283

7.2% of the events encounter several other needs prior to designing their educational activities



D1.0_Needs Assessment – Discussion points

- It seems that most “Needs Assessment” categories have positive association between each other. Essentially this reflects the fact that only half of the applications provide needs assessment and even fewer have a robust breakdown of the needs.
- We observe minor differences across each type of event, which again can be attributed to variation in reporting quality in this domain
- Needs assessment in almost all cases arise from international needs
- The vast majority of events base their needs assessment on previous feedback or surveys across participants
- There is a need for unifying reporting in this section of the application



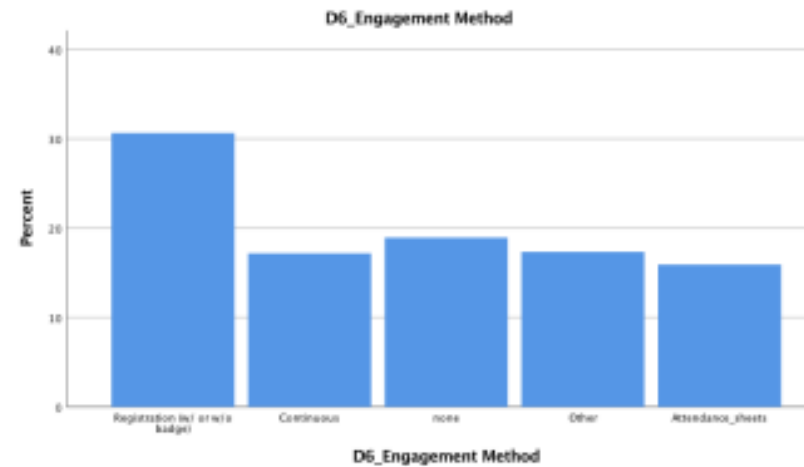
Engaging Participants

D6_Engagement

	Frequency	Percent	Valid Percent	Cumulative Percent
No	1523	25.2	25.2	25.2
Yes	4511	74.8	74.8	100.0
Total	6034	100.0	100.0	

D6_Engagement Method

	Frequency	Percent
Registration (w/ or w/o badge)	1848	30.6
Continuous	1036	17.2
none	1142	18.9
Other	1046	17.3
Attendance_sheets	960	15.9
Total	6032	100.0
Missing System	2	
Total	6034	





Engagement across different types of events

		Registration (w/ or w/o badge)	D6_Engagement Method			Attendance_s heets	Total
			Continuous	none	Other		
D1_Type of the event Conference, Hands-on	Conference	963	426	446	192	295	2322
	Course	763	576	525	756	618	3238
	Hands-on workshop	56	24	33	24	43	180
	Satellite Symposium	66	10	138	74	4	292
p<0.01, df 12		1848	1036	1142	1046	960	6032

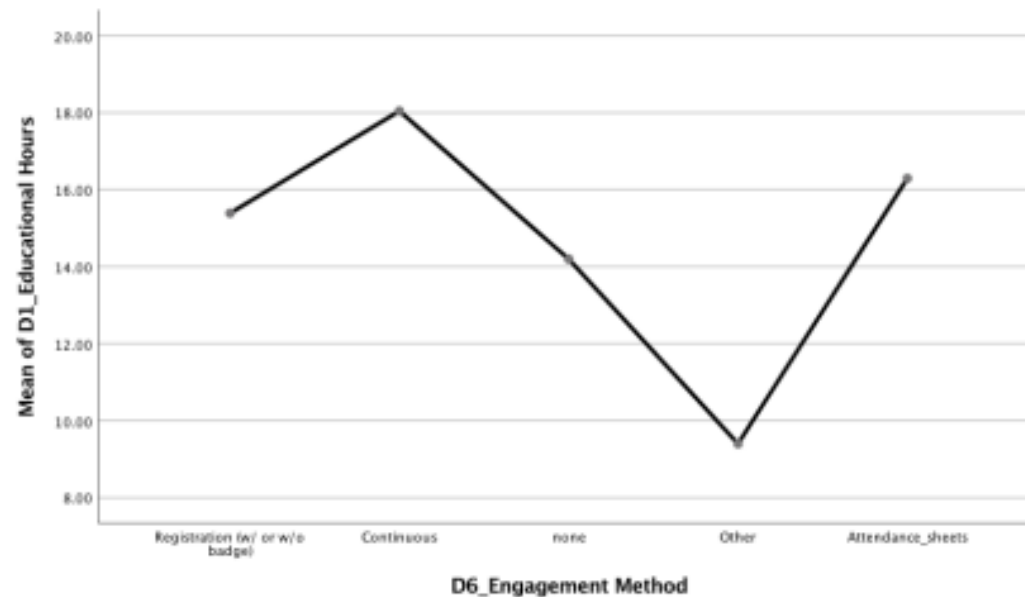


Do duration of the event and number of participants affect engagement?

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		
						Lower Bound	Upper Bound	
D1_Educational Hours	Registration (w/ or w/o badge)	1848	15.3865	9.45989	.22006	14.9549	15.8181	
	Continuous	1036	18.0423	8.71828	.27086	17.5108	18.5738	
	none	1142	14.1957	11.43565	.33840	13.5318	14.8597	
	Other	1046	9.3973	9.99182	.30894	8.7911	10.0035	
	Attendance_sheets	960	16.2928	10.13237	.32702	15.6511	16.9346	
	Total	6032	14.7229	10.30567	.13269	14.4627	14.9830	
	Model	Fixed Effects			9.94388	.12803	14.4719	14.9738
		Random Effects				1.42050	10.7789	18.6668
D8_NUMBER OF PARTICIPANTS [/100]	Registration (w/ or w/o badge)	898	592.5423	1405.63038	46.90649	500.4831	684.6016	
	Continuous	490	588.8510	1986.81977	89.75537	412.4972	765.2048	
	none	496	403.6633	1517.15641	68.12233	269.8187	537.5079	
	Other	307	405.0130	1337.97164	76.36207	254.7518	555.2743	
	Attendance_sheets	444	137.0338	355.87516	16.88909	103.8411	170.2265	
	Total	2635	457.6998	1447.45672	28.19780	402.4077	512.9919	
	Model	Fixed Effects			1438.98242	28.03272	402.7314	512.6682
		Random Effects				89.51095	209.1776	706.2221

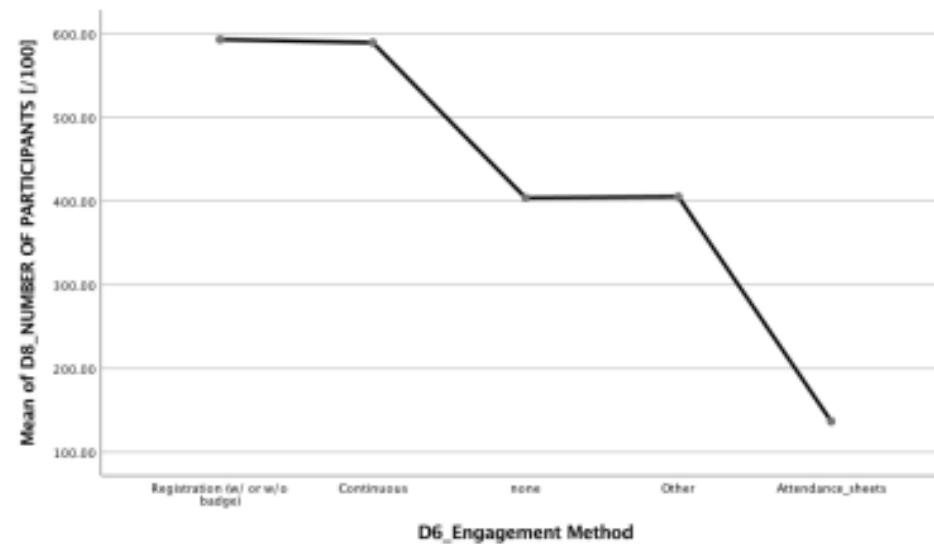


Engagement method across educational hours of the event





Engagement method across number of participants

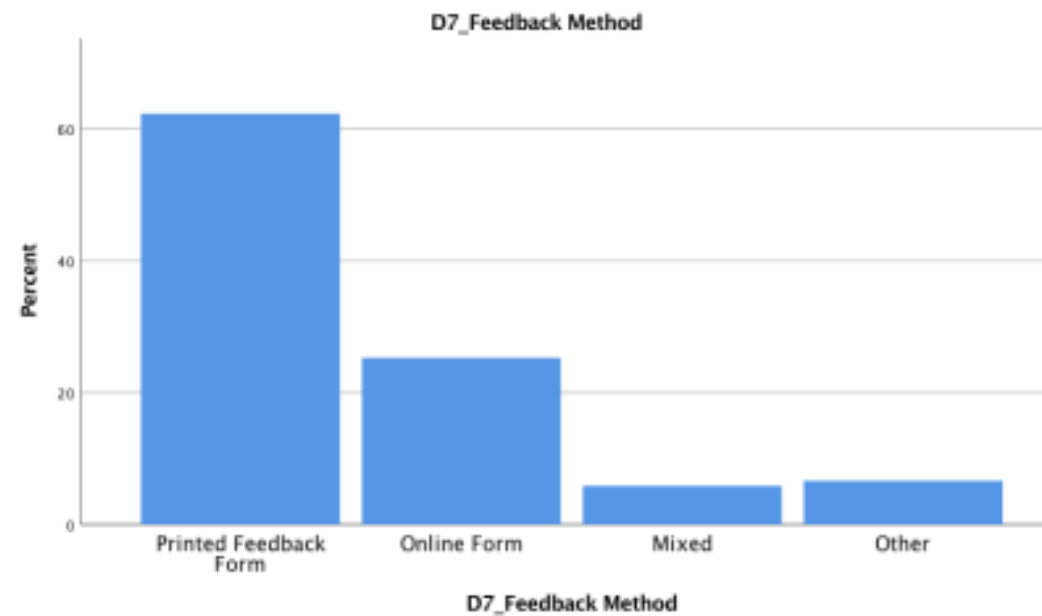




Feedback Methods

D7_Feedback Method

	Frequency	Percent
Printed Feedback Form	3756	62.3
Online Form	1524	25.3
Mixed	353	5.9
Other	399	6.6
Total	6032	100.0
Missing System	2	
Total	6034	





Feedback methods across different types of events

		D7_Feedback Method				Total
		Printed Feedback Form	Online Form	Mixed	Other	
D1_Type of the event Conference, Hands-on	Conference	1509	693	81	40	2323
	Course	2024	607	263	343	3237
	Hands-on workshop	117	49	7	7	180
	Satellite Symposium	106	175	2	9	292
p<0.01, df 9		3756	1524	353	399	6032

Discussion points

- 1 in 4 events did not describe any engagement method
- Almost half of the events embark registration (+/- badge) and or continuous as the most popular method of attendance; registration remains the most popular compared to continuous monitoring of attendance
- Courses seem to facilitate more continuous assessment of engagement compared to conferences
- Duration of the event does not seem to affect engagement method; bigger (large participants' number) events seem to stick with registration with or without badge