

## Attachment 1: Primary data

**Table 1:** Study progress of the participating medical students at the time of the survey. The modules denote the respective clinical semesters at LMU.

Feature	Frequency	Percentage
<b>Study progress</b>		
Preclinical	63	26,7
Module 1	28	11,9
Module 2	16	6,8
Module 3	31	13,1
Module 4	36	15,3
Module 5	46	19,5
Module 6	4	1,7
Practical year	1	0,4
Semester off	2	0,8
NS	9	3,8
<b>Sex</b>		
Male	76	32,2
Female	158	66,9
NS	2	0,8

(NS = not stated,  $N = 236$ )

**Table 2:** Further subject reference of medical students at LMU at the time of the survey with regard to a previous or second degree or previous professional training.

Feature	Frequency	Percentage
<b>Previous studies</b>		
Yes	41	17,4
No	183	77,5
NS	12	5,1
<b>Secondary studies (current)</b>		
Yes	6	2,5
No	207	87,7
NS	23	9,7
<b>Subjects</b>		
Biochemistry	1	0,4
Bioinformatics	1	0,4
Economy	1	0,4
Physics	1	0,4
Art History	1	0,4
Dentistry	1	0,4
<b>Secondary studies (Interest)</b>		
Yes	23	9,7
No	195	82,6
NS	18	7,6
<b>Professional training</b>		
Yes	50	21,2
No	168	71,2
NS	18	7,6
<b>Subjects</b>		
Nurse	8	3,4
paramedic	28	11,9
Medical-technical assistance	1	0,4
Medical-pharmaceutical assistance	1	0,4
Other	12	5,1

(NS = not stated)

**Table 3:** Responses of participating medical students at LMU to the question "In your opinion, to what extent is creative/interdisciplinary/critical thinking currently promoted by the study of human medicine?"

Likert	Creative Thinking	Interdisciplinary Thinking	Critical Thinking
1	64 (27%)	11 (5%)	34 (14%)
2	81 (34%)	32 (14%)	43 (18%)
3	34 (14%)	54 (23%)	41 (17%)
4	32 (14%)	62 (26%)	56 (24%)
5	16 (7%)	60 (25%)	45 (19%)
6	4 (2%)	13 (6%)	11 (5%)
NS	5 (2%)	4 (2%)	6 (3%)
Total	236	236	236

(Question type: 6-point Likert scale, 1 = not encouraged, 6 = very encouraged, NS = not stated, *N* = 236)

**Table 4:** Responses from participating medical students at LMU to the question "To what extent do you think creative/interdisciplinary/critical thinking would currently be enhanced by a visionary elective curriculum?"

Likert	Creative Thinking	Interdisciplinary Thinking	Critical Thinking
1	5 (2%)	4 (2%)	5 (2%)
2	18 (8%)	9 (4%)	9 (4%)
3	17 (%)	14 (6%)	11 (5%)
4	62 (7%)	40 (17%)	56 (24%)
5	76 (26%)	81 (34%)	88 (37%)
6	42 (18%)	68 (29%)	54 (23%)
NA	16 (7%)	20 (8%)	13 (6%)
Total	236	236	236

(Question type: 6-point Likert scale, 1 = not encouraged, 6 = very encouraged, NS = not stated, *N* = 236)

**Table 5:** Responses from participating medical students at LMU to the question "Please indicate the extent to which the following topics are currently covered by the human medicine curriculum."

Likert	Philo	CS	GH	Lit	Eco	Poli	Stat	Bio
1	81	63	36	173	101	127	18	6
2	74	86	67	42	87	58	29	8
3	30	39	52	7	18	21	53	20
4	31	21	45	3	10	15	59	41
5	7	10	19	1	4	2	49	87
6	1	2	4	0	1	0	15	57
NS	12	15	13	10	15	13	13	17
Total	236	236	236	236	236	236	236	236

(Question type: 6-point Likert scale, 1 = weakly covered, 6 = strongly covered, NS = not specified, N = 236; Philo = philosophy, CS = computer science, GH = global health, Lit = literary studies, Eco = economics, Poli = political science, Stat = statistics, Bio = biology).

**Table 6:** Responses from participating medical students at LMU to the question "What topics would you want to address in a visionary elective curriculum?"

Likert	Philo	CS	GH	Lit	Eco	Poli	Stat	Bio
1	58	38	13	76	24	25	48	36
2	26	27	15	41	30	25	40	35
3	22	29	22	20	32	20	47	38
4	39	41	42	33	35	47	46	55
5	31	50	60	25	61	53	19	31
6	37	33	64	22	40	50	16	22
NS	23	18	20	19	14	16	20	19
Total	236	236	236	236	236	236	236	236

(Question type: 6-point Likert scale, 1 = weakly covered, 6 = strongly covered, NS = not specified, N = 236; Philo = philosophy, CS = computer science, GH = global health, Lit = literary studies, Eco = economics, Poli = political science, Stat = statistics, Bio = biology).

**Table 5:** Responses from participating medical students at LMU to the question "Do you think a project like the visionary elective curriculum makes medical students better doctors?"

Likert	Frequency	Percentage
1	51	22,6
2	75	33,3
3	58	25,8
4	15	6,7
5	17	7,6
6	9	4,0
NS	11	4,7
Total	236	100

(Question type: 6-point Likert scale, 1 = not encouraged, 6 = very encouraged, NS = not stated,  $N = 236$ )

**Table 6:** Responses from participating medical students at LMU to the optional question "Do you think a project like the visionary elective curriculum makes medical students better doctors?"

	Wording	Frequency
Yes	Expands non-medical general knowledge/horizon	37
	Expands non-medical specific knowledge	2
	Promotes critical/creative thinking	17
	Matures personality	1
	Not assignable to exact performance	3
No	Only personal initiative allows students to become better physicians	1
Undecided	Only dedicated students benefit from an elective curriculum	2
NS	/	4
Total	/	67

(Question type: free text response,  $N = 67$ )

**Table 7:** Parametric comparison between preclinical and clinical students on the question "Would you want to participate in a visionary elective curriculum?"

	N	Mean	Std. deviation	Std. error	95% confidence interval for the mean value		Minimum	Maximum	Variance between components
					Upper limit	Lower limit			
Preclinical	56	4,86	1,052	,141	4,58	5,14	2	6	
Clinical	154	4,35	1,532	,123	4,11	4,59	1	6	
Total	210	4,49	1,435	,099	4,29	4,68	1	6	
Model	Fixed effects		1,421	,098	4,29	4,68			
	Random effects			,270	1,06	7,91			,104

(A) Descriptive statistics, question type: 6-point Likert scale, 1 = strongly disagree, 6 = strongly agree, N = 210

	Sum of squares	df	Mean of squares	F	Significance
Between the groups	10,535	1	10,535	5,218	,023
Within groups	419,922	208	2,019		
Total	430,457	209			

(B) Single factorial ANOVA

**Table 8:** Parametric comparison between students in the preclinical and clinical study sections. 'Should interfaces of medicine with other non-medical specialties be addressed in human medical studies?'

	N	Mean	Std. deviation	Std. error	95% confidence interval for the mean value		Minimum	Maximum	Variance between components
					Upper limit	Lower limit			
Preclinical	59	1,10	,305	,040	1,02	1,18	1	2	
Clinical	156	1,22	,414	,033	1,15	1,28	1	2	
Total	215	1,19	,390	,027	1,13	1,24	1	2	
Model	Fixed effects		,387	,026	1,13	1,24			
	Random effects			,061	,41	1,96			,005

(A) Descriptive statistics, question type: 6-point Likert scale, 1 = strongly disagree, 6 = strongly agree, N = 215

	Sum of squares	df	Mean of squares	F	Significance
Between the groups	,579	1	,579	3,854	,051
Within groups	31,980	213	,150		
Total	32,558	214			

(B) Single factorial ANOVA