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Typifying and Characterizing Suicide and its Dynamics of Progression towards Completion: A Model Gautam Anand*

Affiliation: Department of psychiatry, Muzaffarnagar medical college, Muzaffarnagar, Uttar Pradesh, India

*Corresponding author: Gautam Anand, Department of psychiatry, Muzaffarnagar medical college, Muzaffarnagar, Uttar Pradesh, India,

Tel: 919406821491, E-mail: drganandgwl@gmail.com

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Abstract

Suicide has its own trends and path. An emotional set back may leads to suicide is seemed to happen instantly but it is not true, it takes times to complete .All most all of us have to experience death wishes but never reach to that point when said completed. Very few will reach to that point where assessed. This study has aim to decide the path by which completion occurs. Study has used the various discrete data of various studies freely available on internet. They were analyzed and arranged logically in sequence to set the path and trends.

Conclusion: Everyone in their life at least has to wish to die but very few complete it. It progress in certain path as wish further strengthen by idea following celebrate self-harm may repeat or accidentally completed if not further proceeded to take attempt. It may be completed or rest as further are risk of suicide.

Keywords: Suicide, Celebrate self-harm, Attempt and Completion.

Introduction

Lot of the people have suicidal ideation but few succeed. This behavior does not direct to its final destination. It has to proceed in succession. The aim of this study is to establish the successive stage and patternize the suicide in different form, require further statistical approval. The postulated model has four major components that pass through them as a) ideation b) threat c) attempt d) completion. Ideation may be situational or persistent .Threat can be seen without self-harm or with self-harm if it occurs with self-harm can be evident with self-mutilation or deliberate self-harm or self-throttling. In case if attempts are taken can be identified as true or threat. If truly taken with ideation which may be situation or momentarily with or without idea or accidental to proceed further to complete or incomplete. Completion of suicide may be associated with mental illness a) with psychotic symptoms b) without psychotic symptom c) under distress d) under substance influence e) adjustment problem and associated family conflict 2) without mental illness a) under serial forced circumstance b) accidental. These are the components that are identified in clinical practice. The only survivors are negotiable and those who are psychiatrically ill are assessed with precaution but those who are free from mental illness remained untouched, need further approval for wide acceptance.

Review of literature

Study of prevalence of suicide ideation across nine diverse nation has slight variation in life time prevalence rate of suicide rate pr 100 is ranged from 2.09 to 18.51 and attempt ranged from 0.72 to 5.93. Suicide ideation among female has marginally higher than male but

attempt is two to three folds higher than male each year 300000 death occurred every year and one million die due to suicide [1-3]. Trend of suicide ideation plan gesture or attempts are studied from between 1990-1992 and 2001-2003 has no significant changes found in this study suicidal ideation (2.8% vs 3.3%; P=.43), plans (0.7% vs 1.0%; P=.15), gestures (0.3% vs 0.2%; P=.24), or attempts (0.4%-0.6%; P=.45), whereas conditional prevalence of plans among ideators increased significantly (from 19.6% to 28.6%; P=.04), and conditional prevalence of gestures among planners decreased significantly (from 21.4% to 6.4%; P=.003). Treatment increased dramatically among ideators who made a gesture (40.3% vs 92.8%) and among ideators who made an attempt (49.6% vs 79.0%). Conclusions despite a dramatic increase in treatment, no significant decrease occurred in suicidal thoughts, plans, gestures, or attempts in the United States during the 1990s. Continued efforts are needed to increase outreach to untreated individuals with suicidal ideation before the occurrence of attempts and to improve treatment effectiveness for such cases. Suicide is one of the leading causes of death worldwide. As a result, the World Health Organization and the US surgeon general have highlighted the need [2].

The assumption that information on suicide-related behaviors, including thoughts, plans, gestures, and nonfatal attempts, is important for understanding completed suicides can be called into question because only a small fraction of suicide attempters eventually complete suicide. It is known stronger predictor of suicide at 5.4%, completed suicide prevalence in this community cohort of suicide attempters was almost 59% higher than previously reported [4-5]. An innovative aspect of this study explains the discrepancy: by including index

S877 13.5 3.9 4.6	Sample Size	Life time ideation	Life time plan	Gesture	Life time attempt	12 month Ideation	12 month Plan	12 month Attempt	6 month Ideation	6 month Plan	6 month Attempt
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1157											
1456											
Str 11.7											
S877											
5877 1.69 with no intent	3101	11.7			7.7						
2554 10.1 -	5877		1.69 with		4.6						
4609 10 7 2 2	2554	10.1			4.4						
T544 19.8											
4746 24											
Sync 23.3											
879 15 12 4.3											
1995 22.23.8 57-62 1.7											
1020/3 2.7	879	15	12		4.3						
G28	5995	22.2-23.8	5.7-6.2		1.7						
1362	10203	2.7			0.9						
1362	628	18.65			4.5						
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521 33.3 10.4 2.6 </td <td></td>											
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667 33 19.5 5.1	521										
11577 10.4 4.4 4.2 .	667										
25180											
800		10.4	4.4								
12992 15.7 5.5 4.5 .											
101											
4710	12992	15.7	5.5		4.5						
6752	101	8.9	1.1		0.4			//	7		
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2300 1.2	5201	3.1	0.9		1						
5782 8.1 3.2 2.7 <td></td>											
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214 <td>1258</td> <td></td> <td></td> <td></td> <td>6.4</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td>	1258				6.4				4		
214 <td>12206</td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	12206				8						
519 9.5 <td></td> <td></td> <td>-</td> <td>144 - 44 A</td> <td>3.5</td> <td></td> <td></td> <td></td> <td>* <u></u></td> <td></td> <td></td>			-	144 - 44 A	3.5				* <u></u>		
519 9.5 <td>214</td> <td></td>	214										
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69797 2.6-25.4 1.1-15.6 2.3		2.1-18.5									
84850 3-15.9 0.7-5.6 2.75			1 1-15 6					,			
214 <td></td> <td></td> <td></td> <td>07.56</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				07.56							
519 <td></td>											
9268											0.5
203 3.4						2.5	1.5	2		1	9.5
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2968 17.8 5.4 8.4 278 19.8 5 1.8 1197 18.4 16450 2.2 19.3 6 217 31.3 1362 RANGE 2.6-33 0.7-19.3 0.1-12.1 AVERAG 17.8 10.5 6.1 2.47 12.7 8.4 4.9 17.7 7.7											
278 19.8 5 1.8 1197 18.4 16450 2.2 19.3 6 217 31.3 1362 RANGE 2.6-33 0.7-19.3 0.1-12.1 AVERAG 17.8 10.5 6.1 2.47 12.7 8.4 4.9 17.7 7.7											
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AVERAG 17.8 10.5 6.1 2.47 12.7 8.4 4.9 17.7 7.7											
		2.0-33	0.7-19.3	0.1-12.1							
Table 1: Showed life time 12 months and 6 months ideation, plan, and attempt [12,73]	AVERAG E	17.8									7.75

 Table 1: Showed life time 12 months and 6 months ideation, plan, and attempt [12-73].

attempt deaths-approximately 60% of total suicides- suicide prevalence more than doubled [6-11]. Several study has been conducted to estimate prevalence of suicide ideation planning and attempt for life time 12 months and 6 months of time has great focus on decreasing trends of these events from 6 months to 12 months and life time .The range and average of suicide ideation plan and attempt shown in table They showed decreasing trend but does not fix pattern [12-73].

Death wish	Life time ideation	Life time Plan	Gesture	Life time attempt	Death
34	17.8	10.5	6.1	2.47	0.07

Table 2: Showed the value of different phenomenon and its graph of their trend.

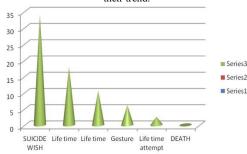


Figure 1: Showed the prevalence of different suicide phenomena in succession.

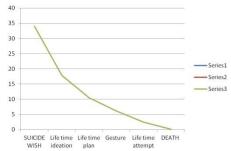


Figure 2: Showed the pattern of suicide forms and their stipness.

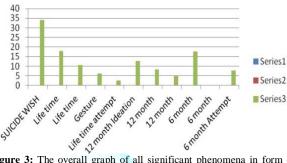


Figure 3: The overall graph of all significant phenomena in form of their intensity, Data for 06 month plan is missing in record which focused and pull attention to continue study and observation.

Life time ideation	Life time plan	Gesture	Life time attempt	12 month Ideation	12 month Plan	12 month Attempt	6 month Ideation	6 month Plan	6 month Attempt	Death
17.8	10.5	6.1	2.47	12.7	8.4	4.9	17.7	7	7.75	0.07

 Table 3: Life event of suicide overall trends.

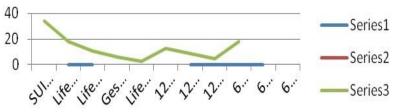


Figure 4: Showed trends of all phenomena in the span.

Aim and Objective

To find out path and progression of suicide.

Method

Selected more than 50 papers and documents available on different site study evaluated and analyzed logically and best suited data available across word wide on internet were sequential arranged. They were put in series may appear in the form of trends to reach completion were considered.

Observation

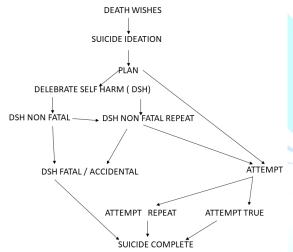
- 1. Prevalence rate/100 Suicidal ideation 2.09-18.51 Suicidal attempt 0.2-5.93
- Suicide ideation; 2.8-3.3 suicide planner; 0.7-1.0; gesture; 0.3-0.2 suicidal attempt; 0.4-0.6
- 247 relatives suicide completer matched with 171 relatives of matched group of community comparison AXIS 1 disorder 80% alcohol abuse=44% Depressive disorder 40%, 56%, 24% drug abuse and dependence AXIS II 56%, Cluster B-52%, Cluster A-4%, 4% AXIS II in comparison group Linkage study relative of

- suicide completers has outnumber of prevalence of aggression depression childhood abuse and ideation than relatives of nonsuicide
- Suicidal attempt 148.8 per 100000 person per year and suicide ideation-449.9 per 100000 person years
- Suicidal ideation 5.6%, suicidal planner 2.7%, 0.7% suicide attempt
- N=4866, suicide ideation 2.4% female, 2.3% male, Para suicide 0.9% in women and 1.1% in male
- 7. N=700 death wishes 34%, suicidal ideation 12.5%, attempt 2.6%
- 8. 11583 of DSH, repeated DSH 39%, RR 2.24% of suicide
- 11583 DSH- Suicide in 5 yrs n=300, RR in 1st yrs e first year of follow-up was 0.7% (95% CI 0.6-0.9%), which was 66 (95% CI 52-82) times the annual risk of suicide in the general population. The risk after 5 years was 1.7%, at10 years 2.4% and at 15 years 3.0%.
- 10. DSH 16 % non-fatal, 2% fatal after 9 yrs 7% suicide.
- N=11572 ratio between completed suicide and attempted suicide 1:23

Discussion and Interpretation

The available data obtained from internet survey arranged in sequence and its proportion emphasized that death wishes are highest in ranking followed by attempt and suicide completion [7]. The ration of suicide attempt and suicide is 1:23 but there is always a gap exist to full fill in between the suicide ideation and completion [11]. The analysis and visual impact of data presume that celebrate self-harm fatal and non-fatal repeaters will have to full fill the gap [8,9,10]. The other factors associated to death completion in linkage study sugest aggression and impulsivity is force to complete suicide [3]. Psychiatric co morbid or psychiatric condition such as mood disorder, substance use traumatic experiences have role in transmission of ideation or death wishes to suicide.

Considering the average of life time prevalence, 12 month and 06 month prevalence of suicide as 17.8, 12.7 and 17.7% [3,12-73]. The most of suicide prevalence exist infinitival 06 month and remained high throughout the life span and most of the attempt were taken in initial first six months as mentioned in table above the plan were persistently high throughout the life span. In all these succession death wishes are 34% statistically it stand far before the prevalence of life time ideation [7]. DSH 16% non-fatal, 2% fatal after 9 yrs 7% suicide Deliberate self-harm stands somewhere in between ideation planning as and attempts [9,11]. The ratio of attempted suicide and completed suicide is 1:23 then it completion in attempted suicide of 2.43% is 0.07%. (y=1*2.43/23).



Flow charts - Represents the successive path to complete suicide.

Conclusion

Everyone in their life at least has to wish die but very few complete it. It progress in certain path as wish further strengthen by idea following deliberate self-harm may repeat or accidentally completed if not further proceeds to take attempt. It may be completed or rest as further risk of suicide. Furthermore the life time plan and plan wit in the 12 months has to prolong further in their form. The earlier intervention in 06 months duration may decrease the incidence of suicide and also transition to continue as 12 month of life time prevalence, plan, and attempt towards completion, may be a possible explanation.

References

 Wiessman MM, Band RC, Canino GJ, Greenwald S, Hwu HG, et al. Prevalence of suicide ideation and suicide attempts in nine countries (1999) Psychol med 29: 9-17.

- Kessler RC, Patricia B, Berglund P, Borges G, Nock M, et al. Trend in suicide ideation Plans Gesture and Attempt in United States (2005) JAMA 293: 2487-2495. https://doi.org/10.1001/jama.293.20.2487
- Kuo WH and Gallo JJ. Completed suicide after a suicide attempt (2005) Am J Psyi 162: 633.
- Dim K C, Seguin M, Therrien N, Riopel G, Chawky N, et al. Familial Aggression of suicidal behaviour: A Family study of male suicide completers from general population (2005) Am J Psyi 162: 1017-1019. https://doi.org/10.1176/appi.ajp.162.5.1017
- Suiminen K, Isometsa L, Suokas J, Hauka J, Ackte k, et al. Completed suicide after a suicide attempt: a 37-year follow-up study (2004) Am J psyi 161: 562-563. https://doi.org/10.1176/appi.ajp.161.3.562
- Bostwick JM, Pabbati C, Geske JR and McKean AJ. Suicide attempt is a risk factor for completed suicide: Even more lethal than we knew (2016) Am J psyi 173: 1094 -1100. https://doi.org/10.1176/appi.ajp.2016.15070854
- Kuo WH, Gallo JJ and Tien AY. Incidence of suicide ideation and attempts in adult 13 years follow up of a community in Baltimore Maryland (2001) Psychol Med 31: 1181-1191. https://doi.org/10.1017/S0033291701004482
- Crosby EA, Mark P, Cheltenham BS and Sacks JJ. Suicide and life threating behaviour (1999) SJR 29: 131-140.
- Hintkka J, Viinamaki H, Tanskanen A, Kontula O and Koskela K. Suicidal Ideation and parasuicide in the finnish general population (1998) Acta Psyi 98: 23-27. https://doi.org/10.1111/j.1600-0447.1998.tb10037.x
- Renberg ES. Self-reported life-weariness, death wishes, suicidal ideation suicidal planes and suicidal attempt in general population survey in the north of Sweden 1986 and 1996 (2001) Soc Psychiatry Psychiatr Epidemiol 36: 429-436. https://doi.org/10.1192/bjp.185.1.70
- Zahl DL and Hawton K. Repetition of deliberate self-harm and subsequent suicide risk: long-term follow-up study of 11,583 patients (2004) Br J Psychiatry 185: 70-75. https://doi.org/10.1192/bjp.185.1.70
- 12. Hawton K, Zahl D and Weatherall R. Suicide following deliberate self-harm: long-term follow-up of patients who presented to a general hospital (2003) Br J Psychiatry 182: 537-542. https://doi.org/10.1192/bjp.182.6.537
- Owens D, Horrocks J and House A. Fatal and non-fatal repetition of self-harm Systematic review (2002) Br J Psychiatry 181: 193-199. https://doi.org/10.1192/bjp.181.3.193
- De Leo D, Cerin E, Spathonis K and Burgis S. Life time risk suicide ideation and attempt in an Australian community, Prevalence, suicidal process and help seeking behavior (2005) J Affect Disord 86: 215-224. https://doi.org/10.1016/j.jad.2005.02.001
- Moscicki EK. The Harvard Medical School guide to suicide assessment and intervention (Jacobs GD) (Ed) (1999) Epidemiol suicide, Jossey-Bass Publishers, USA, 40-51.
- Kessler RC, Borges G and Walters EE. Prevalence of and risk factors for lifetime suicide attempts in the National Comorbidity Survey (1999) Arch Gen Psyi 56: 617-626. https://doi.org/10.1001/archpsyc.56.7.617
- Dube SR, Anda RF, Felitti VJ, Chapman DP, Williamson DF, et al. Childhood abuse, household dysfunction, and the risk of attempted suicide throughout the life span: findings from the Adverse Childhood Experiences Study (2001) JAMA 286: 3089-3096. https://doi.org/10.1001/jama.286.24.3089
- Ialongo N, McCreary BK, Pearson JL, Koenig AL, Wagner BM, et al. Suicidal behavior among urban, African American young adults (2002) Suicide Life Threat Behav 32: 256-271.
- Garroutte EM, Goldberg J, Beals J, Herrell R, Manson SM, et al. Spirituality and attempted suicide among American Indians (2003) Soc Sci Med 56: 1571-1579. https://doi.org/10.1016/S0277-9536(02)00157-0

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- Joe S, Baser RE, Breeden G, Neighbors HW and Jackson JS. Prevalence of and risk factors for lifetime suicide attempts among blacks in the United States (2006) JAMA 296: 2112-2123. https://doi.org/10.1001/jama.296.17.2112
- Nock MK and Kessler RC. Prevalence of and risk factors for suicide attempts versus suicide gestures: analysis of the National Comorbidity Survey (2006) J Abnorm Psychol 115: 616-623. http://dx.doi.org/10.1037/0021-843X.115.3.616
- Fortuna LR, Perez DJ, Canino G, Sribney W and Alegria M. Prevalence and correlates of lifetime suicidal ideation and suicide attempts among Latino subgroups in the United States (2007) J Clin Psychiatry 68: 572-581.
- Brenner ND, Hassan SS and Barrios LC. Suicidal ideation among college students in the United States (1999) J Consult Clin Psychol 67: 1004-1008. http://dx.doi.org/10.1037/0022-006X.67.6.1004
- Kessler RC, Berglund P, Borges G, Nock M and Wanget SP. Trends in suicide ideation, plans, gestures, and attempts in the United States, 1990-1992 to 2001-2003 (2005) JAMA 293: 2487-2495. http://dx.doi.org/10.1001/jama.293.20.2487
- Bertolote JM, Fleischmann A, De Leo D, Bolhari J, Botega N, et al. Suicide attempts, plans, and ideation in culturally diverse sites: the WHO SUPRE-MISS community survey (2005) Psychol Med
 35: 1457-1465. https://doi.org/10.1017/S0033291705005404
- Alaimo K, Olson CM and Frongillo EA. Family food insufficiency, but not low family income, is positively associated with dysthymia and suicide symptoms in adolescents (2002) J Nutr 132: 719-725. https://doi.org/10.1093/jn/132.4.719
- Eisenberg ME, Neumark-Sztainer D and Story M. Associations of weight-based teasing and emotional well-being among adolescents (2003) Arch Pediatr Adolesc Med 157: 733-738. https://doi.org/10.1001/archpedi.157.8.733
- Waldrop AE, Hanson RF, Resnick HS, Kilpatrick GD, Naugleet EA, et al. Risk factors for suicidal behavior among a national sample of adolescents: implications for prevention (2007) J Trauma Stress 20: 869-879. https://doi.org/10.1002/jts.20291
- O'Donnell L, O'Donnell C, Wardlaw DM and Ann Stueve. Risk and resiliency factors influencing suicidality among urban African American and Latino youth (2004) Am J Com Psychol 33: 37-49. https://doi.org/10.1023/B:AJCP.0000014317.20704.0b
- Centers for Disease Control and Prevention. National Youth Risk Behavior Survey: 1991-2005: trends in the prevalence of suicide ideation and attempts (2007) Atlanta, GA.
- King RA, Schwab-Stone M, Flisher AJ, Greenwald S, Kramer AR, et al. Psychosocial and risk behavior correlates of youth suicide attempts and suicidal ideation (2001) J Am Acad Child Adolesc Psyi 40: 837-846. https://doi.org/10.1097/00004583-200107000-00019
- Statham DJ, Heath AC, Madden PA, Bucholz KK, Bierut L, et al. Suicidal behaviour: an epidemiological and genetic study (1998) Psychol Med 28: 839-855. https://doi.org/10.1017/s0033291798006916
- Kebede D and Alem A. Suicide attempts and ideation among adults in Addis Ababa, Ethiopia (1999) Acta Psychiatr Scand Suppl 397: 35-39. https://doi.org/10.1111/j.1600-0447.1999.tb10692.x
- Akyuz G, Sar V, Kugu N, Kugua N and Doğan O. Reported childhood trauma, attempted suicide and self-mutilative behavior among women in the general population (2005) Eur Psychiatry 20: 268-273. https://doi.org/10.1016/j.eurpsy.2005.01.002
- Kjoller M and Helweg-Larsen M. Suicidal ideation and suicide attempts among adult Danes (2000) Scand J Public Health 28: 54-61. https://doi.org/10.1080/713797371
- Ramberg IL and Wasserman D. Prevalence of reported suicidal behaviour in the general population and mental health-care staff (2000) Psychol Med 30: 1189-1196. https://doi.org/10.1017/s003329179900238x

- Rancans E, Lapins J, Salander Renberg E, et al. Self-reported suicidal and help seeking behaviours in the general population in Latvia (2003) Soc Psychiatry Psychiatr Epidemiol 38: 18-26. https://doi.org/10.1007/s00127-003-0602-y
- Crawford MJ, Nur U, McKenzie K and Tyrer P. Suicidal ideation and suicide attempts among ethnic minority groups in England: results of a national household survey (2005) Psychol Med 35: 1369-1377. https://doi.org/10.1017/S0033291705005556
- Mohammadi MR, Ghanizadeh A, Rahgozart M, Noorbala AA, Malekafzali H, et al. Suicide attempt and psychiatric disorders in Iran (2005) Suicide Life Threat Behav 35: 309-316.
- Agoub M, Moussaoui D and Kadri N. Assessment of suicidality in a Moroccan metropolitan area (2006) J Affect Disord 90: 223-226. https://doi.org/10.1016/j.jad.2005.09.014
- Liu KY, Chen EY, Chan CL and Lee ST. Socio-economic and psychological correlates of suicidality among Hong Kong working-age adults: results from a population-based survey (2006) Psychol Med 36: 1759-1767. https://doi.org/10.1017/S0033291706009032
- Ovuga E, Boardman J and Wasserman D. Undergraduate student mental health at Makerere University, Uganda (2006) World Psyi 5: 51-52.
- Bernal M, Haro JM, Bernert S, Brugha T, de Graaf R, et al. Risk factors for suicidality in Europe: results from the ESEMED study (2007) J Affect Disord 101: 27-34.
- Bromet EJ, Havenaar JM, Tintle N, Kostyuchenko S, Kotov R, et al. Suicide ideation, plans and attempts in Ukraine: findings from the Ukraine World Mental Health Survey (2007) Psychol Med 37: 807-819. https://doi.org/10.1017/S0033291707009981
- Gureje O, Kola L, Uwakwe R, Udofia O, Wakil A, et al. The profile and risks of suicidal behaviours in the Nigerian Survey of Mental Health and Well-Being (2007) Psychol Med 37: 821-830. https://doi.org/10.1017/S0033291707000311
- Lee S, Fung SC, Tsang A, Liu RZ, Huang QY, et al. Lifetime prevalence of suicide ideation, plan, and attempt in metropolitan China (2007) Acta Psychiatr Scand 116: 429-437. https://doi.org/10.1111/j.1600-0447.2007.01064.x
- Nojomi M, Malakouti SK, Bolhari J and Poshtmashhadi M. A predictor model for suicide attempt: evidence from a populationbased study (2007) Arch Iran Med 10: 452-458.
- Borges G, Nock MK, Medina-Mora ME, Benjet C, Lara C, et al. The epidemiology of suicide-related outcomes in Mexico (2008) Suicide Life Threat Behav 37: 627-640. https://doi.org/10.1521/suli.2007.37.6.627
- Scocco P and De Leo D. One-year prevalence of death thoughts, suicide ideation and behaviours in an elderly population (2002)
 Int J Geriatr Psychiatry 17: 842-846. https://doi.org/10.1002/gps.691
- Gunnell D, Harbord R, Singleton N, Jenkins R and Lewis G. Factors influencing the development and amelioration of suicidal thoughts in the general population. Cohort study (2004) Br J Psychiatry 185: 385-393. https://doi.org/10.1192/bjp.185.5.385
- 51. Tran Thi Thanh H, Tran TN, Jiang GX, Leenaars A and Wasserman D. Life time suicidal thoughts in an urban community in Hanoi, Vietnam (2006) BMC Public Health 6: 76. https://doi.org/10.1186/1471-2458-6-76
- De Leo D, Padoani W, Scocco P, Lie D, Bille-Braheet U, et al. Attempted and completed suicide in older subjects: results from the WHO/EURO Multicentre Study of Suicidal Behaviour (2001) Int J Geriatr Psyi 16: 300-310. https://doi.org/10.1002/gps.337
- Olsson G I and Knorring A L. Adolescent depression: prevalence in Swedish high-school students (2007) Acta Psyi Scand 99: 324-331. https://doi.org/10.1111/j.1600-0447.1999.tb07237.x
- ELKLIT A. Victimization and PTSD in a Danish National Youth Probability Sample (2002) J Am Academy Child Adol Psyi 41: 174-181. https://doi.org/10.1097/00004583-200202000-00011
- Blum R W, Halcón L, Beuhring T, Pate E, Campell-Forrester, et al. Adolescent Health in the Caribbean: Risk and Protective

Anand G. Edelweiss Psychiatry Open Access, 2019 PDF: 117, 3:1

- Factors (2003) Am J Public Healt 93: 456-460. https://doi.org/10.2105/aiph.93.3.456
- Rabe-Jablonska J, Gmitrowicz A, Szymczak W and Kropiwnicki P. Gender influence in suicidal behaviour of Polish adolescents (2003) Europ Child Adol Psyi 12: 205-213. https://doi.org/10.1007/s00787-003-0331-5
- Toros F, Bilgin N G, Sasmaz T, Bugdayci R and Camdeviren H. Suicide Attempts and Risk Factors Among Children and Adolescents (2004) Yonsei Med J 45: 367. https://doi.org/10.3349/ymj.2004.45.3.367
- 58. Zemaitiene N and Zaborskis A. Suicidal tendencies and attitude towards freedom to choose suicide among Lithuanian schoolchildren: results from three cross-sectional studies in 1994, 1998, and 2002 (2005) BMC Public Healt 5: 83. https://doi.org/10.1186/1471-2458-5-83
- Young R, Sweeting H and West P. Prevalence of deliberate selfharm and attempted suicide within contemporary Goth youth subculture: longitudinal cohort study (2006) BMJ 332: 1058-1061. https://doi.org/10.1136/bmj.38790.495544.7c
- Sidhartha T and Jena S. Suicidal behaviors in adolescents (2006)
 Indian J Pediatrics 73: 783-788.
 https://doi.org/10.1007/bf02790385
- Dervic K, Akkaya-Kalayci T, Kapusta ND, Kaya M and Merl E. Suicidal ideation among Viennese high school students (2007) Wiener Klinische Wochenschrift 119: 174-1780. https://doi.org/10.1007/s00508-006-0753-4
- Silviken A and Kvernmo S. Suicide attempts among indigenous Sami adolescents and majority peers in Arctic Norway: Prevalence and associated risk factors (2007) J Adolescence 30: 613-626. https://doi.org/10.1016/j.adolescence.2006.06.004
- 63. Gex CR, Narring F, Ferron C and Michaud PA. Suicide attempts among adolescents in Switzerland: prevalence, associated factors and comorbidity (1998) Acta Psyi Scand 98: 28-33. https://doi.org/10.1111/j.1600-0447.1998.tb10038.x
- Tousignant M, Habimana E, Biron C, Malo C, Sidoli-lebianc E, et al. The Quebec Adolescent Refugee Project: Psychopathology and Family Variables in a Sample From 35 Nations (1999) J Am Academy of Child Adol Psyi 38: 1426-1432. https://doi.org/10.1097/00004583-199911000-00018

- 65. Miauton L, Narring F and Michaud PA. Chronic illness, life style and emotional health in adolescence: results of a cross-sectional survey on the health of 15-20-year-olds in Switzerland (2003) European J Pediatrics 162: 682-689. https://doi.org/10.1007/s00431-003-1179-x
- Yip PSF, Liu KY, Lam TH, Stewart SM, Chen E, et al. Suicidality among High School Students in Hong Kong, SAR (2004) Suicide and Life-Threatening Behavior 34: 284-297. https://doi.org/10.1521/suli.34.3.284.42772
- Rodríguez AH, Caldera T, Kullgren G and Renberg ES. Suicidal expressions among young people in Nicaragua (2006) Social Psychiatry and Psychiatric Epidemiology 41: 692-697. https://doi.org/10.1007/s00127-006-0083-x
- Rudatsikira E, Muula AS and Siziya S. Prevalence and associated factors of suicidal ideation among school-going adolescents in Guyana: results from a cross sectional study (2007) Clini Pract Epidemiol Mental Healt 3: 13. https://doi.org/10.1186/1745-0179-3-13
- Kaltiala-Heino R, Rimpela M, Marttunen M, Rimpela A and Rantanen P. Bullying, depression, and suicidal ideation in Finnish adolescents: school survey (1999) BMJ 319: 348-351. https://doi.org/10.1136/bmj.319.7206.348
- Khokher S and Khan MM. Suicidal Ideation in Pakistani College Students (2005) Crisis 26: 125-127. https://doi.org/10.1027/0227-5910.26.3.125
- Liu X, Tein JY, Zhao Z and Sandler IN. Suicidality and correlates among rural adolescents of China (2005) J Adolesc Healt 37: 443-451. https://doi.org/10.1016/j.jadohealth.2004.08.027
- Weissman MM, Bland RC, Canino GJ, Greenwald S, Hwu HG, et al. Prevalence of suicide ideation and suicide attempts in nine countries (1999) Psychol Med 29: 9-17.
- Nock MK, Borges G, Bromet EJ, Alonso J, Angermeyer M, et al. Cross-national prevalence and risk factors for suicidal ideation, plans, and attempts in the WHO World Mental Health Surveys (2008) Br J Psychiatry 192: 98-105. https://doi.org/10.1192/bjp.bp.107.040113