

Curriculum Vitae

(ultimo aggiornamento dicembre 2024)

Nome e Cognome
Telefono cellulare di servizio
Posta elettronica
PEC istituzionale
Incarico attuale

Markus Falk

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Ricercatore

Formazione

1973 - 1986

Scuola elementare, media e Liceo Scientifico
Brunico/Italia

1986 - 1991

Università Innsbruck: Corso di Laurea in Matematica con specializzazione in Statistica ed Informatica medica (110 e lode)

Language skills

Madrelingua: Tedesco

Altre lingue: Italiano C1, Inglese C1

Programming skills

SQL-Server, Oracle DB, C#, Matlab, R, Visual Basic

Internet Information Server (IIS)

Statistics skills

SPSS, R, SAS, Matlab, BMDP

Carrier

Nov. 1991 - Feb. 1992

Research project FWF P7873-MED as University Assistant
Department of Biostatistics, Innsbruck (Prof. A. Neiß)

March 92 - Nov. 94

University Assistant, Interim Head of the Department of Biostatistics, Innsbruck

May 1994 - Feb. 1995

Member of the Ethics Committee, Medical Faculty, University of Innsbruck

March 1994

Research stay "Department of Applied Mathematics", Masaryk University, Brno, Czech Republik

March 95 - Dec. 96

Contractor with Cancer Registry of South Tyrol

1995-1997	Statistical consultant University Hospital Innsbruck, Department of Anesthesiology and Urology
1994 - 1998	SFB386 "Online Monitoring" Institute of Medical Statistics and Epidemiology (IMSE) der TU-München, Klinikum rechts der Isar, Munich, Germany
June 97	Research stay "Institute of Industrial Mathematical Sciences", University of Manitoba, Winnipeg, Manitoba, Canada
1998 - 2011	Statistical Consultant Research Centre Laimburg (Bozen)
1998 - 2015	CIO Inova Q GmbH / s.r.l. Bolzano, IT-Company, Software-Development and Consultancy
2006 - 2015	Statistical Consultant Cancer Registry of South Tyrol
2014 - 2022	Research contractor at EURAC, Institute of Mountain Emergency Medicine
since 2015	Self-employed Biostatistician, Brunico, Italy, Vienna, Austria
since 2015	Member of Management Board "Förderverein The FoodCoop", Vienna, Austria

Lectures/Docenze

1992-1995	Biostatistics, Medical Faculty, Medical Universität of Innsbruck. Austria
1992-1995	Biostatistics, Institute of Biology, Universität of Innsbruck. Austria
1995-1999	Biostatistics, Medical Faculty. Technische Universität München. Germany
1999-2000	Medical Information Systems, Management Centrum Innsbruck (MCI).
Since 1996	Biostatistics College of Health-Care Professions Claudiana, Bolzano Università Cattolica del Sacro Cuore, Rome Università degli Studi di Ferrara Università degli Studi di Verona

Reviews for

Resuscitation (Elsevier)
PLOS One
Nature
HAMB

Research prizes

1. Eduard-Wallnöfer-Anerkennungspreis, Innsbruck 1992
2. Georg Grabner Sondervermögen, Wien 1994

Publications

1. Brugger H., Falk M.: Neue Perspektiven zur Lawinenverschüttung (New perspectives of avalanche disasters. Phase classification using pathophysiologic considerations). Wien Klin Wochenschr 104/6:167-173

(1992)

2. Brugger H., Falk M.: Phaseneinteilung der Lawinenverschüttung. Rundbrief der Gesellschaft für Alpin- und Höhenmedizin 7:27-28 (1992)
3. Brugger H., Falk M.: Die 4 Phasen der Lawinenverschüttung. AVS-Mitteilungen 1:3-6 (1992)
4. Brugger H., Falk M.: Die lebensentscheidenden ersten 15 Minuten nach Lawinenniedergang. Neue Züricher Zeitung 27. Feb.: 39-40 (1992)
5. Brugger H., Falk M.: Die vier Phasen der Lawinenverschüttung. Österreichischer Alpenverein, Mitteilungen 6:22-24 (1992)
6. Brugger H., Falk M.: Die vier Phasen der Lawinenverschüttung. Die Alpen, Monatsbulletin des Schweizer Alpen Clubs 9:414-416 (1992)
7. Brugger H., Falk M.: Le quattro fasi del seppellimento da valanga. Neve e Valanghe 16:24-31 (1992)
8. Ennemoser O, Ambach W, Brunner P, Schneider P, Neiß A, Falk M: Außergewöhnlich hohe Radonkonzentrationen; Österreichische Hochschulzeitung Nr. 9/44.; Bauen und Wohnen (1992)
9. Brugger H., Falk M.: Neue Aspekte zur Überlebenschance bei Lawinenverschüttung. Bergsteiger & Bergwanderer 2: 79-83 (1993)
10. Brugger H, Falk M: Die vier Phasen der Lawinenverschüttung. Die Alpen, Monatsbulletin des Schweizer Alpen Clubs 9: 414-416 (1992)
11. Brugger H, Falk M: Die vier Phasen der Lawinenverschüttung. Österreichischer Alpenverein, Mitteilungen 6: 22-24 (1992)
12. Bonatti J, Weiss W, Talirz G, Weimann S, Flora G, Falk M: Verschluß-, aneurysma- und infektionsbedingte Rezidiveingriffe nach Aortengabelrekonstruktion. Angio Archiv 24: 68-72 (1993)
13. Brugger H., Falk M.: Vier Phasen der Lawinenverschüttung. Notfallmedizin 2: 68-73 (1993)
14. Thaler J, Gastl G, Fluckinger T, Niederwieser D, Huber H, Seewann H, Silly H, Lang A, Abbrederis C, Gadner H, Fereberger W, Schiller L, Köck L, Fridrik M, Duba C, Falk M, Berger M, Kür T, Huber C: Treatment of Chronic Myelogenous Leukemia With Interferon Alfa-2c: Response Rate Toxicity in a Phase II Multicenter Study. Seminars in Hematology, Vol 30, No 3, Suppl 3: 17-19 (1993)
15. Antretter H, Cottogni M, Falbesoner C, Furtwängler W, Mair P, Falk M, Hutter J: Bioprothesendegeneration in Aorten- und Mitralposition - Ergebnisse und Probleme aus kardiochirurgischer Sicht. Wien Med Wochenschr 143/1: 281-287 (1993)
16. Brugger H, Falk M: Kaksne so moznosti, da ostanemo zivi pod snegom?; Zivljenje in Tehnika, Januar: 46-51, Lubljana, Slowenien (1993)
17. Brugger H, Falk M: Les 4 stades de l'envelisment sous l'avalanche. Neige et avalanches 65: 14-18 ANENA Grenobles (1994)
18. Brugger H, Falk M: Survie en avalanche. La montagne & alpinisme 1: 42-45, Paris (1994)
19. Falk M, Brugger H, Adler Kastner L: Avalanche survival chances. Nature 368: 21 (1994)
20. Mühlberger V, Probst P, Mlczoch J, Klein W, Pachinger O, Falk M, Raudaschl G: Qualitätskontrolle für Invasive und Interventionelle Kardiologie in Österreich im Kalenderjahr 1993. Der Mediziner Nr.6: 48-53 (1994)

21. Stuppaeck C H, Barnas C, Falk M, Guenther V, Hummer M, Oberbauer H, Pycha R, Whitworth A B, Fleischhacker W W: Assessment of the alcohol withdrawal syndrome - validity and reliability of the translated and modified Clinical Institute Withdrawal Assessment for Alcohol scale (CIWA-A). *Addiction* 89: 1287-1292 (1994)
22. Mühlberger V, Porbst P, Mlczoch J, Klein W, Pachinger O, Falk M, Raudaschl G: Qualitätssicherung Invasiver Interventioneller Kardiologie in Österreich 1993. *Perfusion* 10: 344-361 (1994)
23. Falk M, Brugger H, Kastener L: Avalanche survival chances. *The Newsletter of the International Society for Mountain Medicine* Vol 4, Nr 3: 2-4, Geneva (1994)
24. Brugger H, Durer B, Falk M: Sepolti da Valanga: Considerazioni Mediche. *Neve e Valanghe* 22:40-43 (1994)
25. Germann R, Haisjackl M, Hasibeder W, Sparr H, Luz G, Plattner R, Pernthaler H, Friesenecker B, Falk M: Dopamine and mucosal oxygenation in the porcine jejunum. *J. Appl. Physiol.* 77(6): 2845-2852 (1994)
26. Ransmayr-G; Kunig-G; Neubauer-M; Wagner-M; Falk-M: Effect of age and disease duration on parkinsonian motor scores under levodopa therapy. *J-Neural-Transm-Park-Dis-Dement-Sect*; 9(2-3): 177-88 (1995)
27. Fink FM; Maurer-Dengg K; Fritsch G; Mann G; Zoubek A; Falk M; Gadner H: Recombinant human granulocyte-macrophage colony-stimulating factor in septic neutropenic pediatric cancer patients: detection of circulating hematopoietic precursor cells correlates with rapid granulocyte recovery. *Med Pediatr Oncol (United States)*, 25(5) p365-71 (1995)
28. Fink FM; Genser N; Fink C; Falk M; Cardiac troponin T and creatine kinase MB mass concentrations in children receiving anthracycline chemotherapy. *Med Pediatr Oncol (United States)*, 25(3) p185-9 (1995)
29. Kremser BG; Falk M; Kieselbach GF. Influence of serum lipid fractions on the course of diabetic macular edema after photocoagulation. *Ophthalmologica (Switzerland)*, 209(2) p60-3 (1995)
30. Stenzl A; Draxl H; Posch B; Colleselli K; Falk M; Bartsch G: The risk of urethral tumors in female bladder cancer: can the urethra be used for orthotopic reconstruction of the lower urinary tract? *J Urol (United States)*, 153(3 Pt 2) p950-5 (1995)
31. Eisterer W; Hilbe W; Fend F; Ludescher C; Falk M; Thaler J: Identification of a favorable subgroup of patients with generalized immunocytomas by follicular dendritic cells. *Leukemia (England)*, 9(2) p254-9 (1995)
32. Fridrik-MA; Hausmaninger-H; Linkesch-W; Stoger-M; Sill-H; Neubauer-M; Seewann-HL; Klocker-J; Haidinger-R; Schiller-L; Pont-J; Raudaschl-G; Falk-M; Radaszkiewicz-T: CEOP-IMVP-Dexa in the treatment of aggressive lymphomas: an Austrian multicenter trial. *J-Clin-Oncol*; 14(1): 227-32 (1996)
33. Erckert M, Stenzl A, Falk M, Bartsch G: Incidence of urethral tumor involvement in 910 men with bladder cancer. *World J Urol* 14, 3-8 (1996)
34. Baubin M, Schirmer M, Nogler M, Semenitz B, Falk M, Kroesen G, Hortnagl H, Gilly H: Rescuer's work capacity and duration of cardiopulmonary resuscitation. *Resuscitation*: 33(2): 135-9 (1996)
35. Hummer M, Sperner-Unterweger B, Kemmler G, Falk M, Kurz M, Oberbauer H, Fleischhacker WW: Does eosinophilia predict clozapine induced neutropenia? *Psychopharmacology-Berl.*: 124(1-2):201-4 (1996)
36. Matz-H, Falk M, Gottinger W, Kieselbach G: Cost-benefit analysis of diabetic eye disease. *Ophthalmologica*: 210(6): 348-53 (1996)

37. Geiger R, Ellemunter H, Fink FM, Falk M, Tilg H: Circulating interleukin-1 receptor antagonist levels in neonates. *Eur-J-Pediatr*: 155(9): 811-4 (1996)
38. Prior C, Falk-M, Frank A: Early sensitization to farming-related antigens among young farmers. analysis of risk factors. *Int-Arch-Allergy-Immunol*: 11(2): 182-7 (1996)
39. Thaler J, Gastl G, Fluckinger T, Niederwieser D, Huber H, Seewann-H, Sill-H, Lang-A, Falk M, Duba C, Utermann G, Kuhr T, Aulitzky W, Huber C: Interferon alpha-2c therapy of patients with chronic myelogenous leukemia: long-term results of a multicenter phase-II study. *Ann-Hematol*: 72(69): 349-55 (1996)
40. Hala K, Malin G, Dietrich H, Loesch U, Boeck G, Wolf H, Kaspers B, Geryk J, Falk M, Boyd RL: Analysis of the initiation period of spontaneous autoimmune thyroiditis (SAT) in obese strain (OS) of chickens. *J-Autoimmun*: 9(2): 129-38 (1996)
41. Erckert-M, Stenzl A, Falk M, Bartsch G: Incidence of urethral tumor involvement in 910 men with bladder cancer. *World-J-Urol*: 14(1): 3-8 (1996)
42. Brugger M, Falk M, Adler-Kastner L: Avalanche Emergency. *Wien-Klein-Wochenschr*: 109(5): 145-59 (1997)
43. Baubin M, Schirmer M, Nogler M, Semenitz B, Falk M, Kroesen G, Hortnagl H, Gilly H: Active compression-decompression cardiopulmonary resuscitation in standing position over the patient: pros and cons of a new method. *Resuscitation*: 34(19): 7-10 (1997)
44. Reissigl A, Klocker H, Pointner J, Ennemoser O, Falk M, Bartsch G: Improvement of prostate cancer screening by determination of ratio free/total PSA in addition to pSA levels. *Prostate*: 30(4):243-7 (1997)
45. Brugger H, Falk M, Adler-Kastner L.: Avalanche emergency. New aspects of the pathophysiology and therapy of buried avalanche victims. *Wien Klin Wochenschr*. 1997 Mar 14;109(5):145-59. Review. German.
46. Simma B, Burger R, Falk M, Sacher P, Fanconi S.: A prospective, randomized, and controlled study of fluid management in children with severe head injury: lactated Ringer's solution versus hypertonic saline. *Crit Care Med*. 1998 Jul;26(7):1265-70.
47. Pramstaller PP, Falk M, Schoenhuber R, Poewe W.: Validation of a mail questionnaire for parkinsonism in two languages (German and Italian). *J Neurol*. 1999 Feb;246(2):79-86.
48. Moschen I, Berger P, Falk M, Horl R, Horle M, Gausch K.: Comparison of resin-bonded prosthesis groove parallelism with the use of four tooth preparation methods. *J Prosthet Dent*. 1999 Oct;82(4):398-409.
49. Simma B, Skladal D, Falk M.: Predicting survival infants ventilated with high-frequency oscillation. *Wien Klin Wochenschr*. 2000 Sep 29;112(18):804-10.
50. Prior C, Falk M, Frank A.: Longitudinal changes of sensitization to farming-related antigens among young farmers. *Respiration*. 2001;68(1):46-50.
51. Simma B, Burger R, Falk M, Sacher P, Torresani T, Fanconi S.: The release of antidiuretic hormone is appropriate in response to hypovolemia and/or sodium administration in children with severe head injury: a trial of lactated Ringer's solution versus hypertonic saline. *Anesth Analg*. 2001 Mar;92(3):641-5.
52. Brugger H, Durrer B, Adler-Kastner L, Falk M, Tschirky F.: Field management of avalanche victims. *Resuscitation*. 2001 Oct;51(1):7-15.

53. Brugger H, Sumann G, Meister R, Adler-Kastner L, Mair P, Gunga HC, Schobersberger W, Falk M.: Hypoxia and hypercapnia during respiration into an artificial air pocket in snow: implications for avalanche survival. *Resuscitation*. 2003 Jul;58(1):81-8.
54. Brugger H, Elsensohn F, Syme D, Sumann G, Falk M.: A survey of emergency medical services in mountain areas of Europe and North America: official recommendations of the International Commission for Mountain Emergency Medicine (ICAR Medcom). *High Alt Med Biol*. 2005 Fall;6(3):226-37.
55. Huber M, Telser S, Falk M, Bohm A, Hackenberg B, Schwitzer J, Hinterhuber H.: Information transmission defect identified and localized in language learning impaired children by means of electrophysiology. *Cortex*. 2005 Aug;41(4):464-70.
56. Brugger H, Elsensohn F, Syme D, Sumann G, Falk M.: A survey of emergency medical services in mountain areas of Europe and North America: official recommendations of the International Commission for Mountain Emergency Medicine (ICAR Medcom). *High Alt Med Biol*. 2005 Fall;6(3):226-37.
57. Huber M, Telser S, Falk M, Bohm A, Hackenberg B, Schwitzer J, Hinterhuber H.: Information transmission defect identified and localized in language learning impaired children by means of electrophysiology. *Cortex*. 2005 Aug;41(4):464-70.
58. Mayr A, Kuipers H, Falk M, Santer P, Wierer B.: Comparison of hematologic data in world elite junior speed skaters and in non-athletic juniors. *Int J Sports Med*. 2006 Apr;27(4):283-8.
59. Paal P, Falk M, Sumann G, Demetz F, Beikircher W, Gruber E, Ellerton J, Brugger H. Comparison of mouth-to-mouth, mouth-to-mask and mouth-to-face-shield ventilation by lay persons. *Resuscitation*. 2006 Jul;70(1):117-23. Epub 2006 Jun 9.
60. Brugger H, Etter HJ, Zweifel B, Mair P, Hohlrieder M, Ellerton J, Elsensohn F, Boyd J, Sumann G, Falk M. The impact of avalanche rescue devices on survival. *Resuscitation*. 2007 Dec;75(3):476-83. Epub 2007 Aug 6.
61. Paal P, Falk M, Gruber E, Beikircher W, Sumann G, Demetz F, Ellerton J, Wenzel V, Brugger H. Retention of mouth-to-mouth, mouth-to-mask and mouth-to-face shield ventilation. *Emerg Med J*. 2008 Jan;25(1):42-5.
62. Horstmann M, Witthuhn R, Falk M, Stenzl A. Gender-specific differences in bladder cancer: a retrospective analysis. *Gend Med*. 2008 Dec;5(4):385-94
63. Brugger H, Etter HJ, Boyd J, Falk M. Causes of death from avalanche. *Wilderness Environ Med*. 2009 Spring;20(1):93-6
64. Brugger H, Paal P, Falk M.; Outcry stopped approved pig study of avalanche survival. *Nature*. 2010 Feb 18;463(7283):877.
65. Paal P, Falk M, Gruber E, Beikircher W, Ellerton J, Kainz H, Wenzel V, Brugger H. Effects of training time and feedback on ventilation skills in lay rescuers. *Emerg Med J*. 2010 Apr;27(4):313-6.
66. Ebner FH, Roser F, Falk M, Hermann S, Honegger J, Tatagiba M. Management of intramedullary spinal cord lesions: interdependence of the longitudinal extension of the lesion and the functional outcome. *Eur Spine J*. 2010 Apr;19(4):665-9. doi: 10.1007/s00586-009-1232-1. Epub 2009 Dec 20.
67. Paal P, Braun P, Brugger H, Strappazon G, Falk M. How the media and animal rights activists put avalanche burial study on ice. *BMJ*. 2010 Jul

68. AIRTUM Working Group: Italian cancer figures, report 2010: Cancer prevalence in Italy. Patients living with cancer, long-term survivors and cured patients: *Epidemiol Prev.* 2010 Sep-Dec;34(5-6 Suppl 2):1-188.
69. AIRTUM Working Group: Italian cancer figures, report 2011: Survival of cancer patients in Italy: *Epidemiol Prev.* 2011 Sep-Dec;35(5-6 Suppl 3):1-200.
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71. Haegeli P, Falk M, Brugger H, Etter HJ, Boyd J.: Comparison of avalanche survival patterns in Canada and Switzerland. *CMAJ.* 2011 Apr 19;183(7):789-95. Epub 2011 Mar 21.
72. Paal P, Strapazzon G, Braun P, Ellmauer PP, Schroeder DC, Sumann G, Werner A, Wenzel V, Falk M, Brugger H. Factors affecting survival from avalanche burial--a randomised prospective porcine pilot study. *Resuscitation.* 2013 Feb;84(2):239-43
73. AIRTUM Working Group; CCM; AIEOP Working Group. Italian cancer figures, report 2012: Cancer in children and adolescents. *Epidemiol Prev.* 2013 Jan-Feb;37(1 Suppl 1):1-225. English, Italian.
74. AIRTUM Working Group: Italian cancer figures, report 2013: Multiple tumours. *Epidemiol Prev.* 2013 Jul-Oct;37(4-5 Suppl 1):1-152
75. Gruber E, Oberhammer R, Balkenhol K, Strapazzon G, Procter E, Brugger H, Falk M, Paal P: Basic life support trained nurses ventilate more efficiently with laryngeal mask supreme than with facemask or laryngeal tube suction-disposable-A prospective, randomized clinical trial. *Resuscitation.* 2014 Jan 17. pii: S0300-9572(14)00018-5.
76. Haegeli P, Falk M, Procter E, Zweifel B, Jarry F, Logan S, Kronholm K, Biskupič M, Brugger H: The effectiveness of avalanche airbags. *Resuscitation.* 2014 Sep;85(9):1197-203.
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78. Procter E, Strapazzon G, Balkenhol K, Fop E, Faggionato A, Mayr K, Falk M, Brugger H.: Search and rescue response to a large-scale rockfall disaster. *Wilderness Environ Med.* 2015 Mar;26(1):68-71
79. Ebner H, Falk M, Ferrara F, Cacciatore E, Dompè G, Farina A, Ebner JA.: Perioperative sclerotherapy A survey of current practice by Italian phlebologically-active physicians. *Ann Ital Chir.* 2015; 86:177-84.
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81. Putzer G, Braun P, Strapazzon G, Toferer M, Mulino M, Glodny B, Falk M, Brugger H, Paal P, Helbok R, Mair P. Monitoring of brain oxygenation during hypothermic CPR - A prospective porcine study. *Resuscitation.* 2016 Jul.
82. Strapazzon G, Falk M, Paal P, Brugger H. The challenge of establishing a

- correct serum potassium cutoff for inhospital triage after avalanche-induced cardiac arrest. *Am J Emerg Med*. 2016 Jul.
83. Procter E, Strapazzon G, Dal Cappello T, Zweifel B, Würtele A, Renner A, Falk M, Brugger H. Burial duration, depth and air pocket explain avalanche survival patterns in Austria and Switzerland. *Resuscitation*. 2016 Aug.
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 85. Strapazzon G, Paal P, Schweizer J, Falk M, Reuter B, Schenk K, Gatterer H, Grasegger K, Dal Cappello T, Malacrida S, Riess L, Brugger H. Effects of snow properties on humans breathing into an artificial air pocket - an experimental field study. *Sci Rep*. 2017
 86. Brugger H, Pun M, Swenson ER, Falk M. Research in High-Altitude and Mountain Emergency Medicine: Is Methodology Key? *High Alt Med Biol*. 2018 Mar;19(1):1-3.
 87. Markus Falk. *Die Impfdebatte*. June 2018. ISBN: 978-3-7427-3564-5
 88. Brugger H, Bouzat P, Pasquier M, Mair P, Fieler J, Darocha T, Blancher M, de Riedmatten M, Falk M, Paal P, Strapazzon G, Zafren K, Brodmann Maeder M. Cut-off values of serum potassium and core temperature at hospital admission for extracorporeal rewarming of avalanche victims in cardiac arrest: A retrospective multi-centre study. *Resuscitation*. 2019 Apr 22;139:222-229. doi: 10.1016/j.resuscitation.2019.04.025.
 89. Wallner B, Moroder L, Brandt A, Mair P, Erhart S, Bachler M, Putzer G, Turner R, Strapazzon G, Falk M, Brugger H. Extrication Times During Avalanche Companion Rescue: A Randomized Single-Blinded Manikin Study. *High Alt Med Biol*. 2019 Sep;20(3):245-250. doi: 10.1089/ham.2019.0021. Epub 2019 Jul 2. PMID: 31264903.
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- Emergency Department for Early Identification of COVID-19 Pneumonia. *Respiration*. 2021;100(2):145-153.
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97. Falla M, Dodich A, Papagno C, Gober A, Narduzzi P, Pierotti E, Falk M, Zappini F, Colosimo C, Turella L. Lockdown effects on Parkinson's disease during COVID-19 pandemic: a pilot study. *Acta Neurol Belg*. 2021 Oct;121(5):1191-1198. doi: 10.1007/s13760-021-01732-z. Epub 2021 Jul 1. PMID: 34212285; PMCID: PMC8248756.
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