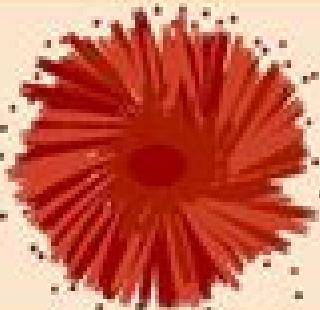


# BLOOD-SPATTER PATTERNS



Example: Gunshot blood spatter



Example: Stabbing blood spatter



Example: Blast object impact

## High Impact:

1. The sizes of the droplets are less than 1 mm
2. The velocity would be 100 ft/sec

## Medium Impact:

1. The sizes of the droplets are between 1 mm and 4 mm.
2. The velocity would be 25 ft/sec

## Low Impact:

1. The sizes of the droplets would be more than 4 mm.
2. The velocity would be 5 ft/sec

## Droplet Patterns:

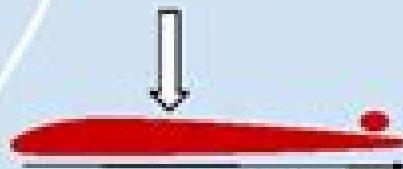
This is 90 degrees with no direction

Spines: connect with the main blood droplet

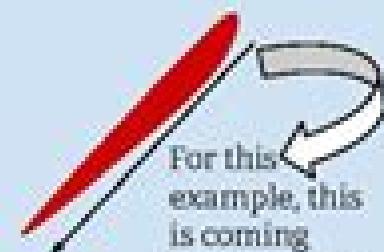


Satellite: are small secondary droplets

This type is going from left to right coming forward.



Direction: blood is traveling; this gives clues to the direction where the blood came from.



For this example, this is coming from a down angle from right to left.

# Blood Spatter Pattern Chart

**Peter R. De Forest, Peter A.  
Pizzola, Brooke W. Kammrath**

## **Blood Spatter Pattern Chart:**

*Handbook of Bloodstain Pattern Analysis* Toby L. Wolson, 2024-12-13 The Handbook of Bloodstain Pattern Analysis captures the latest understanding of the science that supports bloodstain pattern analysis BPA and includes the results of numerous research studies using modern technologies not found in previously published books It provides the BPA community with a modern up to date reference and training manual to outline and validate the utility repeatability and reliability of BPA science BPA has recently been presented in the news media as an example of junk science used in a handful of cases involving wrongful convictions However the reality is that the primary issue for BPA in these wrongful convictions is not the science it is the result of substandard training and the lack of experience of BPA analysts prior to beginning casework and testifying in court as experts As such this book is written to serve as an essential study guide for analysts preparing to sit for the International Association for Identification IAI Bloodstain Pattern Analyst Certification exam The contents of the book are guided by the ANSI ASB Standards for a Bloodstain Pattern Analysis Training Program Each chapter has been written by top experts conversant on the relevant BPA BPA terminology forensic science physics fluid dynamics crime scene analysis education training bias and current relevant legal considerations for use of BPA in court *Handbook of Bloodstain Pattern Analysis* is the most up to date resource on BPA currently available providing a definitive training manual for practitioners and an essential reference for forensic pathologists police investigators crime scene investigators attorneys and students enrolled in forensic science university courses

**FORENSICS IV** Harry A. Milman PhD, 2025-11-12 The American criminal justice system prides itself on convicting only those who have been proven guilty beyond a reasonable doubt but much of admissible forensic evidence on which juries base their determination of guilt or innocence has not been rigorously tested or peer reviewed Sometimes it is contaminated inaccurate or unreliable and occasionally forensic experts are mistaken in their analysis exaggerate their conclusions or provide misleading testimony In *Forensics IV Guilty Until Proven Innocent* I discuss how flaws in forensic evidence including fingerprint firearm DNA hair bite mark and bloodstain pattern analyses as well as limitations in eyewitness identification overstated conclusions by forensic experts scientific fraud at the FBI and state forensic crime laboratories and police and prosecutorial misconduct result in innocent people being found guilty of crimes they did not commit Once wrongfully incarcerated it is almost certain the process of postconviction relief toward exoneration will be long and arduous unlike defendants who are guaranteed a speedy trial Some of the wrongfully convicted people I reviewed include Amanda Knox wrongfully incarcerated in Italy for murdering her housemate based on false DNA analysis Ronald Cotton misidentified and convicted of rape only to be exonerated after nearly eleven years and team up with the victim to lecture about faulty eyewitness identification Brandon Mayfield an Oregon attorney wrongly accused of being an Islamic terrorist involved in the 2004 train bombing in Madrid Spain based on faulty fingerprint identification Kirk Odom wrongfully imprisoned for more than twenty one years as a result of false microscopic hair analysis Keith Harward wrongfully

convicted of rape and murder based on overstated bite mark comparison analysis Julie Rea and David Camm found guilty of killing her son and his wife and two children respectively based on inaccurate bloodstain pattern analysis Patrick Pursley wrongfully convicted of murder due to firearm misidentification Kirk Bloodsworth the first death row inmate to be exonerated with DNA evidence and five men wrongfully incarcerated because of false microscopic hair analysis among others

*Real-World Crime Scene Investigation* Gabriele Suboch, 2016-06-16 Real World Crime Scene Investigation A Step by Step Procedure Manual is designed as a field guide providing instruction on how to document a crime scene including sketching mapping searching collecting and preserving physical evidence It also addresses how to document a crime scene using photography and videography It introduces modern forensics *Crime Scene Science Fair Projects* Elizabeth Snock Harris, 2006 Presents more than twenty great experiments broken into topics such as blood and guts eyewitness accounts and physical evidence that allow students to use real CSI techniques to find clues analyze the data and come to their own conclusions

California Guide to Criminal Evidence 2024-25 (8th edition) Judge Elia V. Pirozzi (Ret.), 2025-02-01 This treatise is used by attorneys and judges throughout California as a comprehensive resource on evidentiary and constitutional issues It is unique in its approach with numerous checklists courtroom scripts and easy reference charts The California Guide to Criminal Evidence currently in its 8th edition is the one publication in California that provides a systematic approach for practitioners and judicial officers to efficiently address evidentiary and constitutional issues during a trial or motion hearing Complete with federal and state case and statutory law legal commentary and comprehensive easy to access flowcharts and tables the California Guide to Criminal Evidence is the primary resource a litigator will need to accurately resolve complex evidentiary or constitutional questions and effectively introduce an item for admission into evidence and get it admitted by the court It is also functional and compact in that it was created to be brought to court along with counsel's trial binder and materials to be used when quick answers are required concerning evidentiary matters The California Guide to Criminal Evidence was designed as a practice guide to assist attorneys navigate through the maze of legal issues that surface during a proceeding with ease speed and precision Although organized with a criminal law emphasis the California Guide to Criminal Law Evidence has been widely used by both civil and criminal law practitioners judges and law professors Unlike other evidence treatises on the market the California Guide to Criminal Evidence was written for new and experienced litigators complete with in depth legal analysis and commentary practice charts and tables sample scripts and scholarly and practical insight from an experienced criminal and civil trial judge It highlights what judges look for and expect from counsel when seeking to introduce specific items of evidence for admission and how to respond to a judge's questions swiftly concisely and with applicable legal reasoning While other books on the market cover evidence and constitutional issues separately the California Guide to Criminal Evidence does both for one affordable price far below the cost of other texts offering less content And while competitor publications focus primarily on California state cases the California Guide to Criminal Evidence

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Technology of Crime Scene Investigation introduces students to the fascinating world of forensic science and shows them how to find clues analyze evidence and crack the case Combining hands on activities with forensic science kids will have fun learning about the world of forensics evidence collection and crime lab analysis Entertaining illustrations and fascinating sidebars illuminate the topic and bring it to life reinforcing new vocabulary Projects include documenting a crime scene identifying fingerprints analyzing blood spatter and extracting DNA Additional materials include a glossary and a list of current reference works websites museums and science centers *Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction* Tom Bevel,Ross M. Gardner,Tom J. Griffin,2025 Blood Stain Pattern Analysis with an Introduction to Crime Scene Reconstruction Fourth Edition provides criminal investigators and forensic scientists with a complete and comprehensive handbook on bloodstain pattern analysis Bringing over 90 combined years of practical experience and thousands of cases worked collectively the authors explain the complex mechanics of blood spatter analysis including anatomical issues relative to bloodstain pattern analysis a discussion of blood and the circulatory system and the nature of bleeding associated with various traumatic and non traumatic injuries The book also details specific methodologies for crime scene analysis and reconstruction explaining the proven methodology involved in the process Such methodology is built upon scientific method and provides focus and structure to the analyst as they evaluate evidence and conduct their work and the investigation Finally all chapters are fully revised and updated to address the latest taxonomy and terminology with over 400 full color photographs included to illustrate the dynamics of bloodstain pattern analysis Key features Presents a specific and detailed taxonomy of bloodstain pattern characteristics outlining recently updated NIST s OSAC terminology Includes two full color fold outs Decision Map to guide analysts through the classification process Details the theory principles and methodology for crime scene reconstruction Expands the bloodstain on clothing chapter to include new developments in the understanding of bloodstain features and characteristics on cloth Offering practical advice and tips for new and experienced professionals alike Blood Stain Pattern Analysis with an Introduction to Crime Scene Reconstruction Fourth Edition offers readers the necessary tools to guide and focus any investigative effort **Bloodstain Pattern Analysis** Tom Bevel,Ross M. Gardner,2001-09-26 Bloodstain pattern analysis helps establish events associated with violent crimes It is a critical bridge between forensics and the definition of a precise crime reconstruction The second edition of this bestselling book is thoroughly updated to employ recent protocols including the application of scientific method the use of flow charts and the inter relationship of crime scene analysis to criminal profiling It provides more illustrations including color photographs and explains the use of computer programs to create demonstrative evidence for court **The Defense of the Criminal Offense** ,2007 *The Iowa Review* ,2007 **Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction, Third Edition** Tom Bevel,Ross M. Gardner,2008-04-08 Objective establishment of the truth is the goal of any good crime scene investigator This demands a consideration of all evidence available using proven

scientific methodologies to establish objective snapshots of the crime. The majority of forensic disciplines shed light on the who of a crime, bloodstain pattern analysis is one of the most important disciplines to address what happened. Understanding the discipline, its underlying scientific basis and how best to apply this knowledge is crucial in the investigator's quest for the truth. Internationally known experts in crime scene analysis, Tom Bevel and Ross M. Gardner, explore bloodstain pattern analysis in depth, explaining what it is, how it is used and the practical methodologies employed to achieve defensible results. *Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction* Third Edition Presents a specific and detailed taxonomy of bloodstain pattern characteristics. Offers a full color fold out Decision Map to guide analysts through the classification process. Uses full color photos and diagrams to illustrate concepts. Describes the theory, principles and methodology for crime scene reconstruction. Details proven applicable scientific methodologies. Emphasizes observable and reproducible results to mitigate accusations of subjectivity in evidence and testimony. Provides more than 60% new or significantly revised information. Offering practical advice and tips for novices and experienced professionals, this book employs clear, lucid and reasoned scientific arguments to provide the tools to guide and focus any investigative effort. Captain Tom Bevel is a 27 year veteran of the Oklahoma City Police Department, retiring in 1996 as Commander of the Homicide, Robbery, Missing Persons and Unsolved Homicide units. He is held in high esteem as a qualified expert in crime scene reconstruction and bloodstain pattern analysis in state, federal and foreign courts. His knowledge and expertise as a crime scene consultant has been sought after in 45 US states and 11 foreign countries. He owns a forensic education and consulting company in his home state of Oklahoma. Ross M. Gardner retired as a Command Sergeant Major and Special Agent in 1999 after serving a total of 24 years in US Army law enforcement. Certified by the International Association for Identification as a Senior Crime Analyst for the past 16 years, Gardner is an active instructor and consultant throughout the United States in crime scene analysis, bloodstain pattern analysis and crime scene investigation.

*Reader's Digest Crime Files*, 2003 Twenty six true crime stories of killers, extortionists, drug dealers and law enforcement officials and forensic specialists who brought them to justice. [Blood Traces](#) Peter R. De Forest, Peter A. Pizzola, Brooke W. Kammrath, 2021-08-09 A guide to the scientific interpretation of blood traces. *Blood Traces* provides an authoritative resource that reviews many of the aspects of the interpretation of blood traces that have not been treated with the thoroughness they deserve. With strict adherence to the scientific method, the authors noted experts on the topic address the complexities encountered when interpreting blood trace configurations. The book provides an understanding of the scientific basis for the use of blood trace deposits i.e. bloodstain patterns at crime scenes to better reconstruct a criminal event. The authors define eight overarching principles for the comprehensive analysis and interpretation of blood trace configurations. Three of these principles are: blood traces may reveal a great deal of useful information, extensive blood traces although present may not always yield information relevant to questions that may arise in a given case and a collection of a few seemingly related dried blood droplet deposits is not

necessarily an interpretable pattern This important resource Provides the fundamental principles for the scientific examination and understanding of blood trace deposits and configurations Dispels commonly accepted misinformation about blood traces Contains a variety of illustrative case examples which will aid in demonstrating the concepts discussed Written for forensic scientists crime scene investigators members of the legal community and students in these fields Blood Traces presents the fundamental principles for the scientific examination of blood trace deposits and configurations

**The Pennsylvania Sportsman** ,1988    [Bloodstain Pattern Analysis](#) Craig Gravel,2021-11-19 Bloodstain Pattern Analysis Level 1 Lab Manual provides students with basic knowledge about bloodstain pattern analysis and the opportunity to conduct experiments to demonstrate the dynamics of blood in flight The manual and associated exercises show how bloodstain pattern analysis is used as a forensic science discipline illustrate the information that can be obtained from bloodstain evidence and help students analyze actual bloodstain patterns Upon completion of a course that uses this lab manual students are qualified to join the International Association for Bloodstain Pattern Analysis which is the first step toward taking the International Association of Identification Bloodstain Analysis certification test The second edition features a new introduction as well as a new chapter on cognitive bias written by Kelsey Backry Additionally the chapters have been expanded slightly to include greater depth of historical background for each topic Bloodstain Pattern Analysis is a dynamic lab manual that is ideal for students taking introductory forensic science law enforcement or criminology courses This resource could be especially helpful for active police officers and forensic scientists

*West's Pacific Digest, Beginning 585 P.2d ,1990*    [West's Pacific Digest](#) ,1978    [Crime Scene Forensics Handbook](#) Tom Martin,2010 This unique field guide filled with ready to use documentation forms will help you understand and leverage one of the most important and telling elements at a crime scene Blood Analyze bloodstain patterns Use of blood to determine level of force used on a victim proximity of an attacker type of weapon s used Properly collect and document blood evidence without compromising the integrity of the evidence and the scene Follow appropriate protocols for blood swabbing Ensure that 5 key initial scene observations are covered Expertly designed to provide on scene tips investigatory checklists and immediately usable support documents

**Bloodstain Pattern Analysis** Sonya Ching-Ying Siu,2012 Bloodstain pattern analysis BPA provides significant evidentiary value in crime scene interpretation and reconstruction but many aspects of BPA are controversial due to the heavy reliance on qualitative and subjective interpretation For example the differentiation between so called medium and high velocity impact spatter patterns legacy terminology typically associated with blunt instrument and gunshot impacts respectively has traditionally relied on visual assessment of the average drop size in the pattern Because this methodology is subjective and susceptible to context bias most BPA organizations recommend against even attempting to describe the velocity that creates a spatter pattern despite the clear forensic value of such determinations in crime scene interpretation In this work we develop a quantitative methodology using digital image analysis techniques to differentiate medium and high

velocity impact spatter patterns in an objective manner. Bloodstain spatter patterns were created under controlled conditions by impacting either blunt instruments or bullets into blood soaked sponges. The impact velocities were determined using high speed video and the resulting spatter patterns were digitally imaged at high resolution then analyzed using custom image analysis algorithms. Our analysis of 72 unique spatter patterns comprising more than 490 000 individual droplets indicates that the mean drop size in a gunshot spatter pattern is at most 30% smaller than the mean drop size in blunt instrument patterns. In contrast we demonstrate that the spatially dependent size distribution of droplets i e drop sizes as a function of position in the pattern significantly differs between bullet and blunt instrument patterns with a spatially dependent metric as much as 400% larger for bullet impacts. Our findings suggest that quantitative metrics involving the spatial distribution of droplets within a spatter pattern can be useful for objective differentiation between blunt instrument and gunshot spatter patterns.

*Death Investigation* Terry L. Castleman, 2000. This book is a handbook and practical guide for police death investigators. The book is divided into two sections one for in depth reading and the other as a quick reference section. The book defines death and the role of the police death investigator and discusses the various aspects and causes of death. It covers identifying the victim, establishing time of death by post mortem changes, drowning, gunshot wounds, cutting, stabbing and blunt trauma, asphyxia by poisoning and other means, deaths due to fire, electrical and lightning, deaths from traffic crash related deaths, deaths due to cocaine, infant death, suicide, homicide and studies and experiments including use of computers to document information from the experiments and to create and manipulate databases. It includes data on crime scenes, use of such evidence as blood spatter and fly larvae and use of hypnosis and psychics in major case investigations. It also contains a comprehensive glossary and photographs from actual cases. The guiding theme of the handbook is that teamwork in death investigations is essential to achieve viable and effective solutions.

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