



**CARDIO
RUN
2023**

**15^{ème} CONGRÈS DE PATHOLOGIE
CARDIO-VASCULAIRE**

27-28-29 SEPTEMBRE 2023

Hôtel Saint Alexis **ILE DE LA RÉUNION** France

Frédéric Lapostolle

Urgences - SAMU 93, UF Recherche

Hôpital Avicenne, Bobigny & Université Paris 13



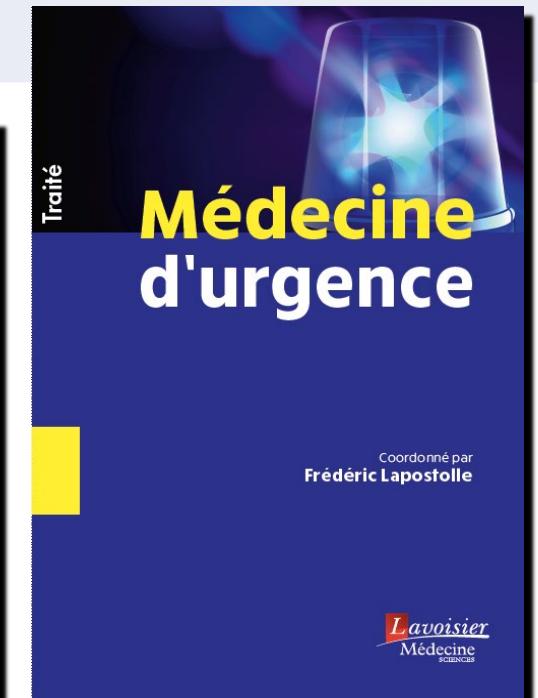
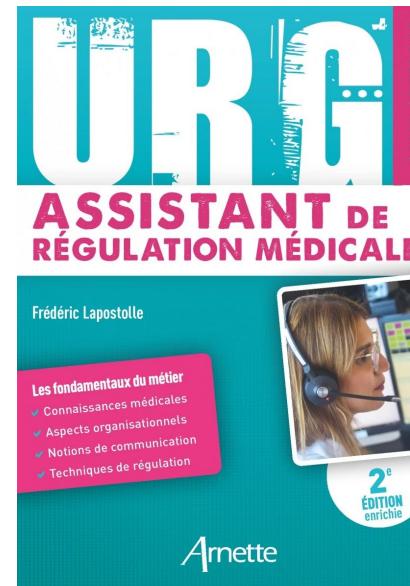
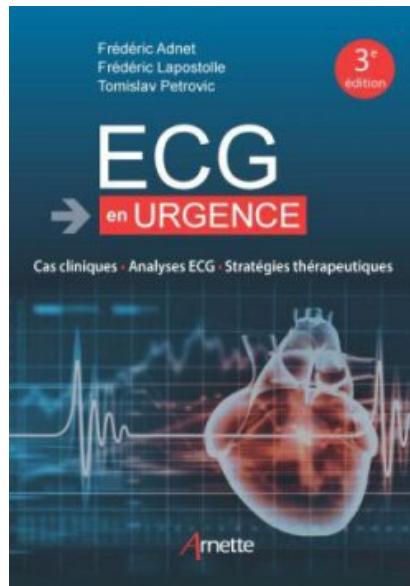
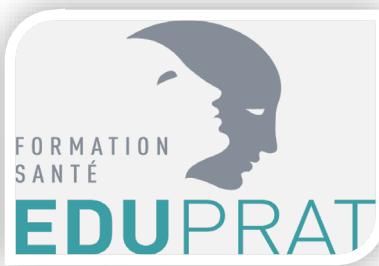
Drogues de rue & coeur



Disclosures

Conferences : Astra-Zeneca, Boehringer-Ingelheim, Mundipharma, Novartis, Nova-Biomedical, Serb, Teleflex

Investigator – Research : Astra-Zeneca, Boehringer-Ingelheim, Mundipharma, Novartis, Teleflex





Le Parisien

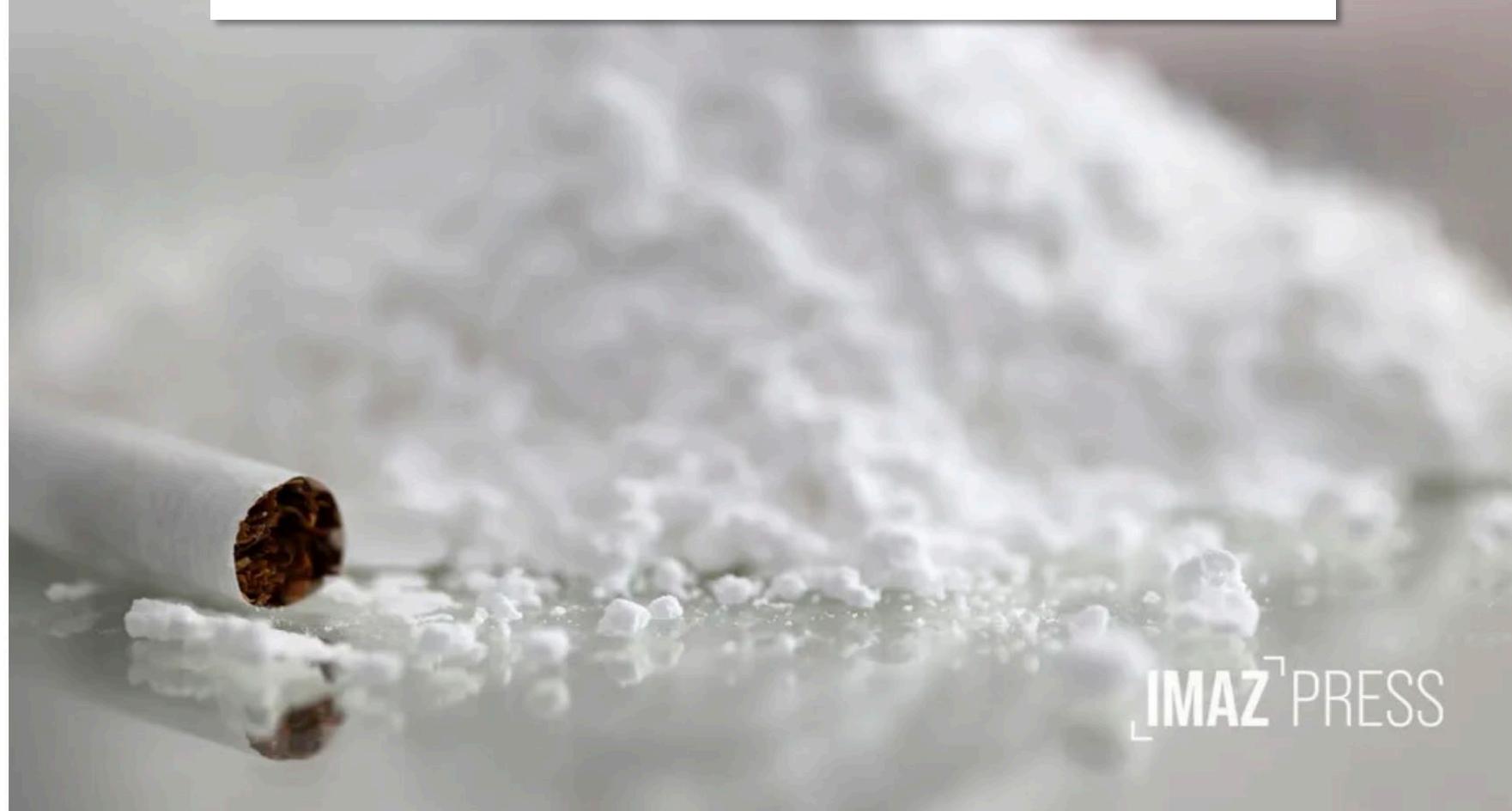
Mari, 23 Juin 2023

Enquête **Société, Santé**

HHC, fentanyl, 3-MMC... Ces nouvelles drogues de synthèse, peu chères et addictives, casse-tête des autorités

L'Europe en dénombre 900. Fabriquées en laboratoire, ces substances moins coûteuses et plus addictives se popularisent en France. Après chaque interdiction, de nouvelles molécules sont mises sur le marché. Enquête sur un fléau.

Overdoses mortelles à La Réunion : d'où provient cette substance inconnue "500 fois plus puissante que l'héroïne" ?



IMAZPRESS

réunion .1

11 Septembre 2023





Trafic de tabac : 600 000 paquets de cigarettes de contrebande saisis en Picardie



Cardiovascular Effect of Bans on Smoking in Public Places

A Systematic Review and Meta-Analysis

Meyers, JACC, 2009

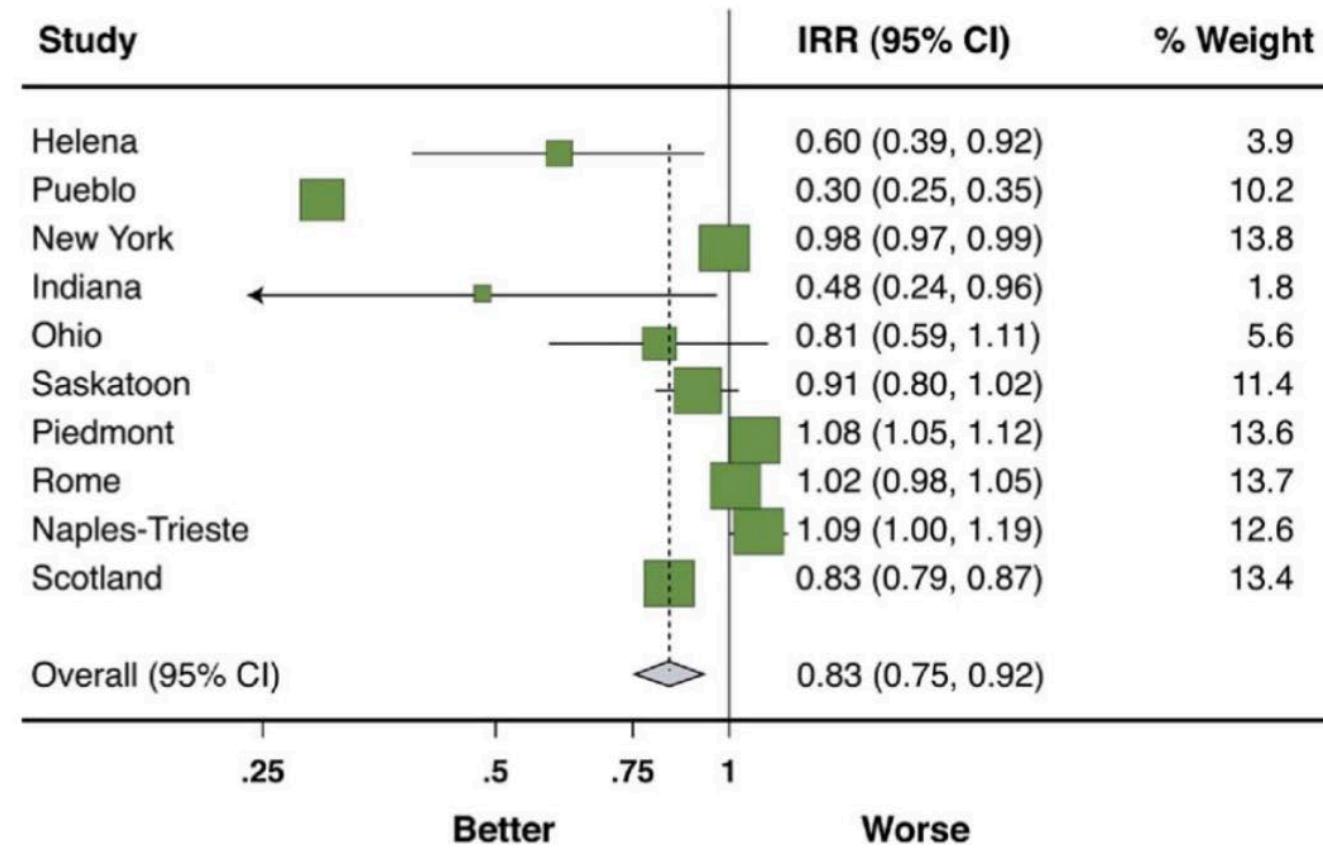


Figure 1 Effects of Community Smoking Bans on Incident Acute Myocardial Infarction (Person-Year Approach)

Estimation du nombre de consommateurs de substances psychoactives en France métropolitaine parmi les 11-75 ans [1, 2, 3]

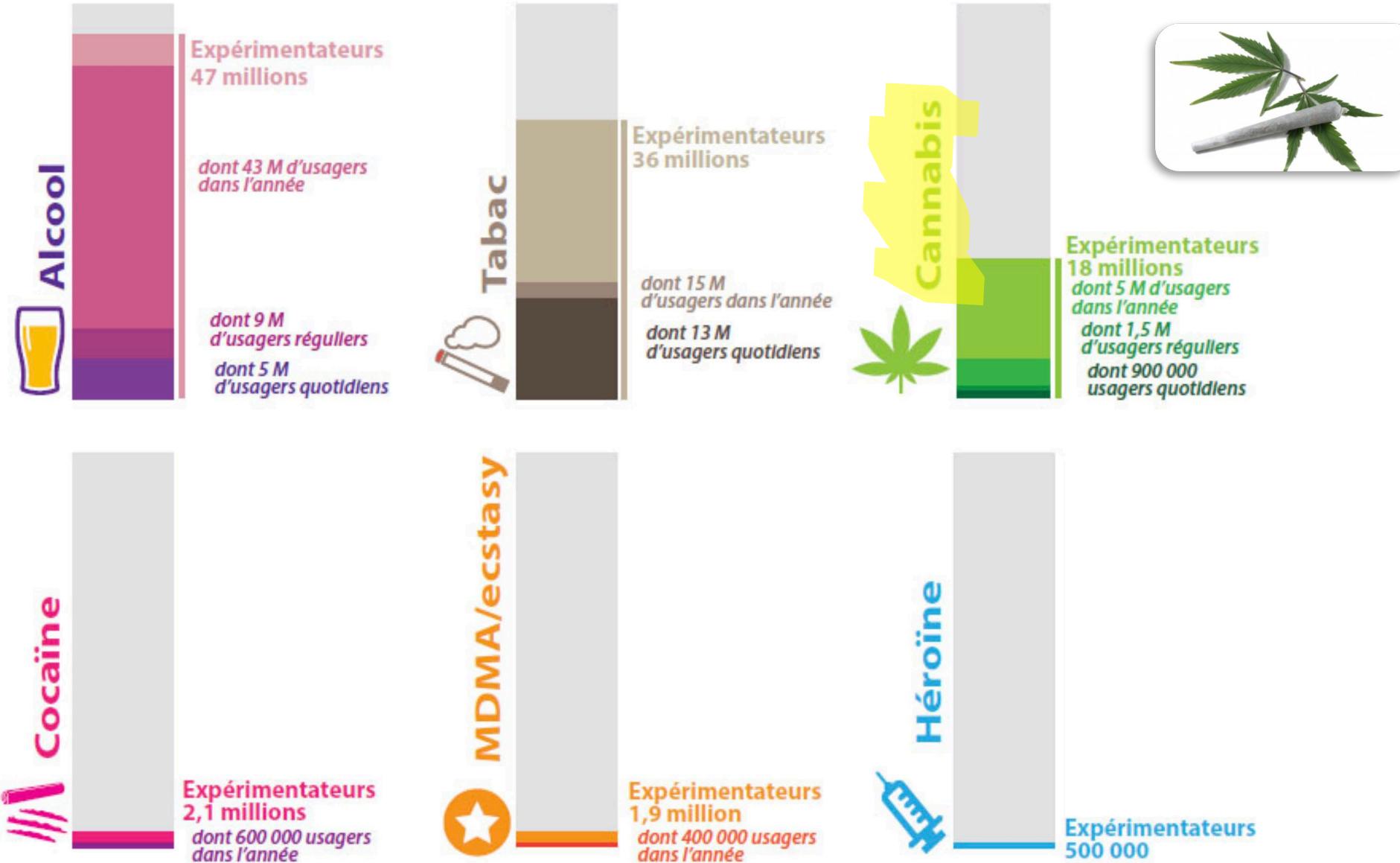




Table 4. Major Cardiovascular Adverse Events, Treatment-Emergent Adverse Events, and Reasons for Study Drug Discontinuation (Randomized Population, n = 839)

Event	No. (%)		P Value
	Placebo	Rimonabant	
Major Cardiovascular Adverse Events			
No.	417	422	
Composite of cardiovascular death, nonfatal MI, nonfatal stroke, or hospitalization (for revascularization, unstable angina, or TIA)	46 (11.0)	44 (10.4)	.79 ^a
Composite of cardiovascular death, nonfatal MI, or nonfatal stroke	7 (1.7)	13 (3.1)	.18 ^a
Cardiovascular death	2 (0.5)	0	.25
All-cause mortality	8 (1.9)	2 (0.5)	.06
Nonfatal MI	4 (1.0)	9 (2.1)	.17
Fatal or nonfatal stroke	1 (0.2)	4 (0.9)	.37
Hospitalization for revascularization, unstable angina, or TIA	40 (9.6)	36 (8.5)	.59

Most Common Treatment-Emergent Adverse Events (Safety Population, n = 838)

No.		416	422	
	Psychiatric disorders	118 (28.4)	183 (43.4)	<.001
	Anxiety	49 (11.8)	76 (18.0)	.01
	Depression	47 (11.3)	71 (16.8)	.02
	Insomnia	38 (9.1)	52 (12.3)	.14
	Depressed mood	20 (4.8)	29 (6.9)	.20
	Major depression	9 (2.2)	13 (3.1)	.41
	Suicidal ideation	10 (2.4)	7 (1.7)	.44
	Suicide attempt	1 (0.2)	0	.50
	Completed suicide	0	1 (0.2)	.50
	Severe psychiatric disorders ^b	16 (3.8)	20 (4.7)	.52
	Dizziness	53 (12.7)	61 (14.5)	.47
	Fatigue	25 (6.0)	46 (10.9)	.01
	Gastrointestinal tract disorders	74 (17.8)	142 (33.6)	<.001
	Nausea	23 (5.5)	63 (14.9)	<.001
	Diarrhea	14 (3.4)	33 (7.8)	.005
	Vomiting	8 (1.9)	23 (5.5)	.01
	Constipation	8 (1.9)	11 (2.6)	.51
	Erectile dysfunction (n=271 and 274 men)	2 (0.7)	9 (3.3)	.03
	Creatinine ≥150 µmol/L	6/372 (1.6)	12/361 (3.3)	.13

Nissen, STRADIVARIUS, JAMA, 2008





CBD La Réunion

Saint-Denis Magasin Flowers Power
CBD Shop

Découvrez notre CBD shop à La Réunion – Saint-Denis

Nos équipes expertes du chanvre et passionnées de CBD vous attendent dans votre boutique CBD shop.

Fleurs CBD ▾ Huiles CBD ▾ Résines CBD ▾ E-liquides CBD ▾ Thés Infusions au CBD Animaux CBD ▾



CBD Chat

CBD Chien

CBD Cheval

Le CBD pour les maladies cardiaques : Réduire l'inflammation

L'inflammation du cœur peut, entre autres, endommager les cellules cardiovasculaires, voire les faire mourir. Elle peut être provoquée par certaines maladies, des virus, des médicaments ou même une attaque auto-immune. Si l'inflammation n'est pas traitée, elle peut entraîner la mort.

Le CBD est bien connu pour son potentiel à réduire l'inflammation nocive. L'endocannabinoïde 2-AG se lie au récepteur CB2, ce qui amène le système immunitaire à envoyer moins de cellules immunitaires à l'attaque. Une étude publiée dans la US National Library of Medicine a conclu que les endocannabinoïdes se comportent de manière "promiscuité" en ce qui concerne leurs interactions avec les récepteurs. On prend de plus en plus conscience de l'étroite corrélation qui existe entre le SCE élargi et les processus critiques impliqués dans l'inflammation.

Abaïsser la pression artérielle

L'un des effets secondaires potentiels du CBD est la baisse de la pression artérielle. Dans le cas des maladies cardiaques, il s'agit davantage d'un traitement que d'un risque. Le CBD semble élargir les vaisseaux sanguins, ce qui permet un meilleur flux sanguin. Par conséquent, cela réduit les dommages que l'hypertension artérielle cause aux parois artérielles.

Une étude croisée randomisée sur des patients en bonne santé a montré qu'une dose unique de CBD pouvait contribuer à réduire la pression artérielle. Dans le cadre de cette étude, neuf hommes en bonne santé ont pris soit du CBD, soit un placebo. Les résultats ont montré que ceux qui ont pris du CBD ont vu leur volume d'attaque diminuer, leur pression sanguine diminuer après une exposition au froid et leur pression systolique au repos diminuer.

Le CBD pour les maladies cardiaques : Réduction de l'arythmie

On parle d'arythmie cardiaque lorsque le cœur bat trop tôt, trop vite, trop lentement ou trop irrégulièrement. Souvent, les arythmies peuvent être totalement inoffensives. Toutefois, lorsque le rythme cardiaque est exceptionnellement irrégulier ou qu'il provient d'un cœur endommagé, il peut présenter de graves risques pour la santé.

Les chercheurs ne sont pas sûrs de l'efficacité du CBD dans le traitement des arythmies, mais lors d'études sur des rongeurs, ils ont constaté qu'il était utile. Ils pensent que l'endocannabinoïde 2-AG joue un rôle crucial, mais des recherches supplémentaires sont nécessaires pour vérifier cette conclusion.

Catégories



HUILE CBD



VAPE CBD



PERLES CBD



HUILE CBG



FLEURS CBD



CAPSULES CBD



HUILE CBN



COSMÉTIQUES
CBD



INFUSIONS CBD

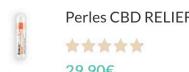


CBD POUR
ANIMAUX



CHAMPIGNONS
ET CBD

Produits les plus vendus sur Cebedia



Perles CBD RELIEF



29,90€



Bonbons THC+CBD



39,00€

A Systematic Review and Meta-Analysis of the Haemodynamic Effects of Cannabidiol aut

Salaamouni, Frontiers Pharmacol, 2017

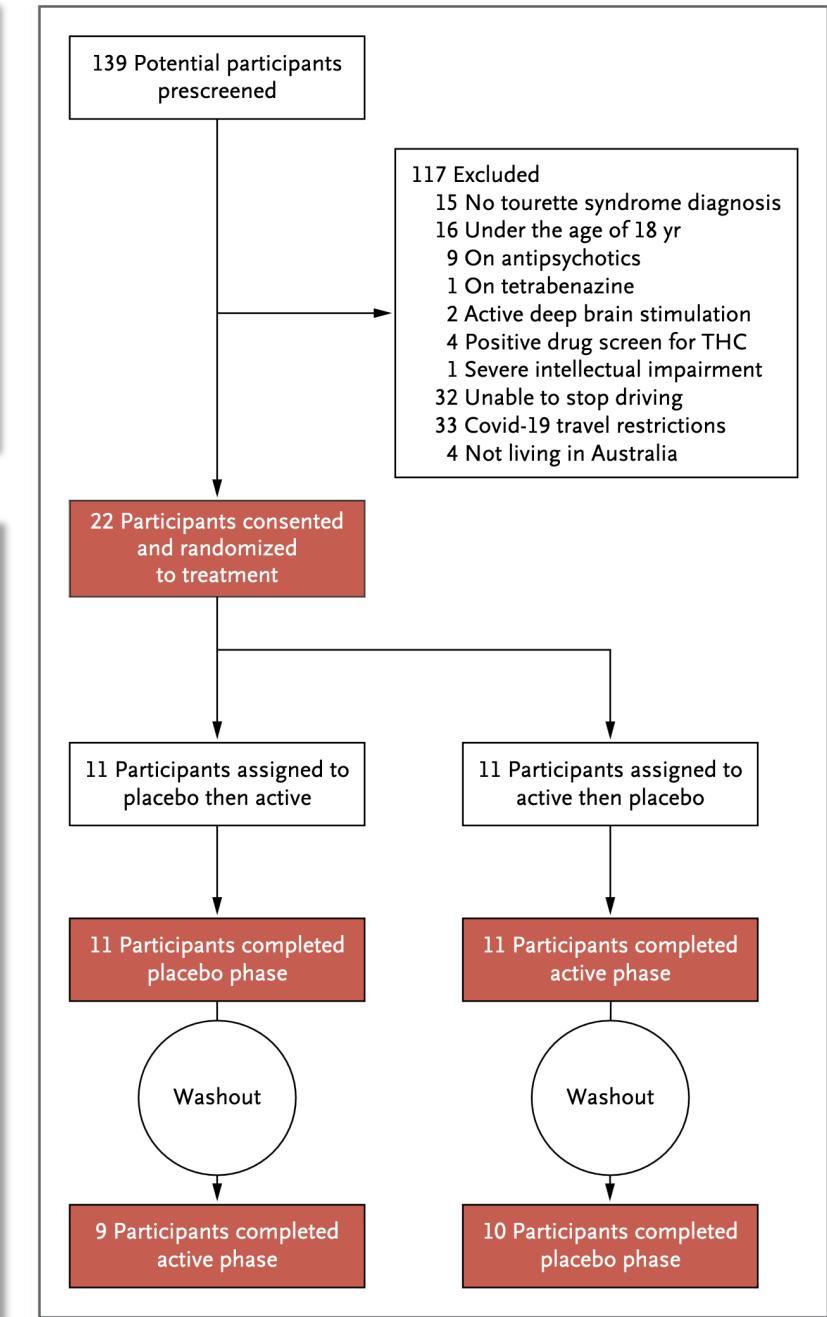
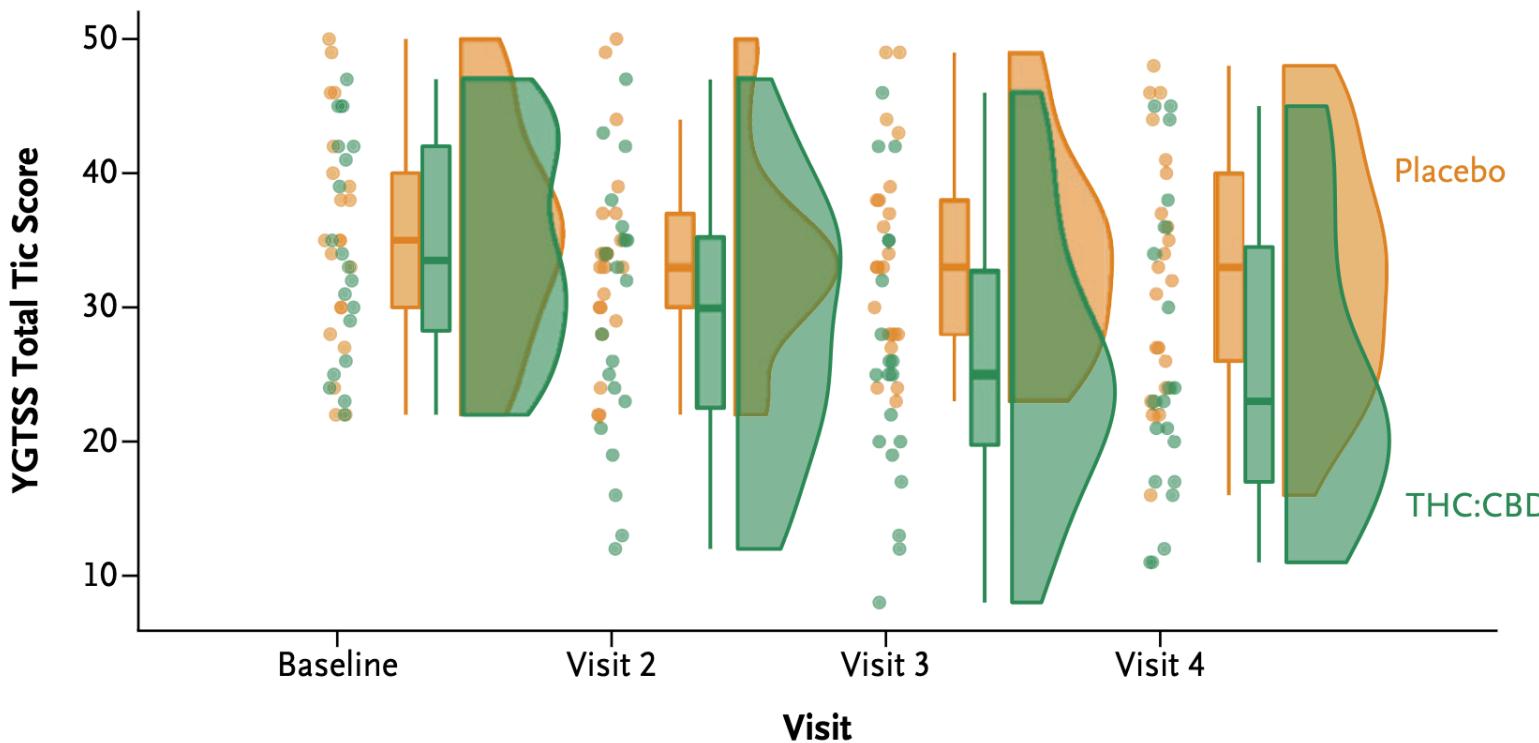
CONCLUSION

This meta-analysis and systematic review has highlighted the haemodynamic effects of CBD administration *in vivo*. The positive effects induced by CBD include maintaining the fall in BP after global hypoxia, reducing the increase in MBP and HR post-stress, and increasing BF in ischaemia-reperfusion models. It is possible that beneficial effects of CBD on haemodynamics occurs when the cardiovascular system is abnormally altered, suggesting that CBD may be used as a treatment for various cardiovascular disorders, such as hypertension, myocardial infarction and stroke. However, the findings from the reviewed studies were predominately preclinical and significant effects were only observed in animals. Data from human studies investigating the effects of CBD on haemodynamics is still very limited and we suggest that further research in humans under pathological conditions is required.



ORIGINAL ARTICLE

Tetrahydrocannabinol and Cannabidiol in Tourette Syndrome



Review

A Literature Review of Cannabis and Myocardial Infarction—What Clinicians May Not Be Aware Of

Chetty, CJC Open, 2020

Table 1. Case report data illustrating patient demographics, pattern of cannabis use, and clinical outcome

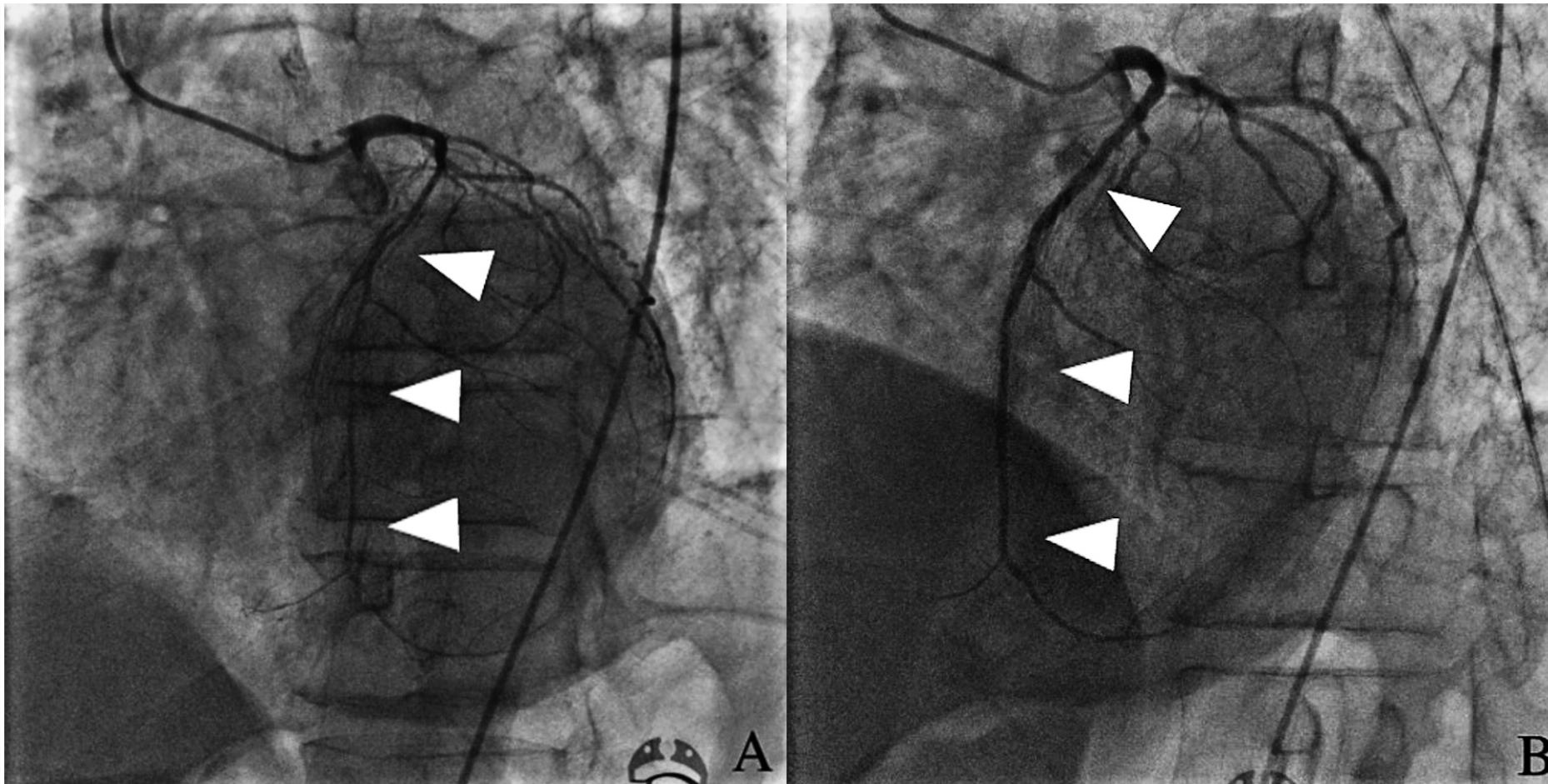
Reference/first author	Year	Age, y	Gender	CV RFs (HTN, DYS, DM, FamHx)	Tobacco	Regular user	Recent use <6 h ago	Synthetic	Other illicit	STEMI	Intervention (PCI/CABG)	Cardiac arrest	Death
Rezkalla ³¹	2003	34	M	N	Y	Y	Y	N	N	Y	N	Y	N
Caldicott ²²	2005	21	M	N	N	N	Y	N	N	Y	Y	N	N
Lindsay ⁴³	2005	48	M	Y	N	Y	Y	N	N	Y	Y	Y	N
Lindsay ⁴³	2005	22	M	N	Y	Y	Y	N	N	Y	Y	N	N
Tatli ⁴⁶	2007	24	M	N	Y	Y	Y	N	N	Y	Y	N	N
Kotsalou ⁴²	2007	53	M	Y	Y	Y	N	N	N	Y	N	N	N
Cappelli ²⁵	2008	26	M	N	Y	Y	Y	N	N	Y	Y	N	N
Dwivedi ¹⁰	2008	23	M	Y	N	Y	N	N	N	N	N	N	N
Dwivedi ⁸⁷	2008	50	M	N	Y	Y	N	N	N	N	N	N	N
Montisci ⁴⁸	2008	31	M	N	N	Y	U	N	Y	Y	N	Y	Y
Kocabay ⁴⁰	2009	32	M	N	Y	Y	Y	N	N	Y	Y	N	N
Bailly ³⁴	2010	36	F	N	N	Y	Y	N	N	Y	N	N	N
Karabulut ³⁰	2010	35	M	N	Y	Y	Y	N	N	Y	N	N	N
Canga ²⁴	2011	28	M	N	Y	Y	Y	N	N	Y	Y	N	N
Mir ⁴⁷	2011	16	M	N	N	N	Y	Y	N	Y	N	N	N
Mir ⁴⁷	2011	16	M	N	N	N	N	Y	N	Y	N	N	N
Pratap ⁵¹	2011	19	M	N	U	Y	Y	N	N	Y	N	N	N
Safaa ⁵³	2011	40	M	Y	Y	Y	Y	N	N	Y	N	N	N
Arora ²³	2012	37	M	Y	N	U	Y	N	N	Y	N	N	N
Renard ⁵²	2012	33	M	N	Y	Y	Y	N	N	Y	N	N	N
Yurdas ⁴⁹	2012	26	M	N	Y	Y	Y	N	N	Y	Y	N	N
Deharo ³⁵	2013	24	M	N	Y	Y	Y	N	N	Y	Y	N	N
Sayin ⁵⁴	2013	30	M	Y	Y	Y	U	N	N	Y	Y	N	N
Ayhan ²⁷	2014	33	M	N	Y	Y	Y	Y	N	Y	Y	N	N
Casier ⁵⁹	2014	52	M	Y	Y	Y	Y	N	N	Y	N	Y	Y
Casier ⁵⁹	2014	23	M	N	N	Y	Y	N	N	Y	Y	Y	N
Casier ⁵⁹	2014	28	M	N	N	N	Y	Y	N	Y	Y	Y	Y
Gunawardena ³²	2014	29	M	N	U	U	Y	Y	U	Y	N	N	N
Hodcroft ²⁹	2014	21	M	Y	Y	Y	Y	Y	N	Y	Y	Y	N
Ibrahim ²⁸	2014	56	M	Y	N	N	Y	Y	N	Y	N	Y	Y
Tse ⁵⁷	2014	45	M	Y	Y	Y	Y	Y	N	Y	N	Y	N
Jehangir ³³	2015	27	F	Y	Y	Y	Y	N	N	Y	Y	N	N
Koklu ⁴¹	2015	31	M	N	U	Y	Y	Y	N	Y	Y	N	N
Marchetti ⁴⁴	2015	50	M	N	Y	Y	N	Y	N	N	N	Y	N
McKeever ⁴⁵	2015	16	M	N	Y	Y	Y	Y	N	Y	N	N	N
Velibey ²⁰	2015	27	M	N	N	Y	Y	Y	N	Y	Y	N	N
Walsh ⁵⁸	2015	26	M	N	N	Y	Y	Y	N	Y	N	N	N
Yilmaz ⁵⁹	2015	29	M	N	Y	N	Y	Y	N	Y	Y	Y	N
Keskin ³⁹	2016	15	M	N	Y	Y	Y	Y	N	Y	N	N	N
McIlroy ⁴⁷	2016	39	M	N	Y	Y	Y	Y	N	Y	Y	Y	N
Orsini ⁵⁰	2016	40	M	N	Y	U	U	Y	Y	Y	N	Y	Y
Shah ⁵⁵	2016	24	M	N	Y	Y	Y	Y	N	Y	Y	N	N
Tirkey ³⁸	2016	25	M	N	N	Y	Y	Y	N	Y	N	N	N
Ul Haq ³⁷	2017	31	M	N	U	U	U	Y	N	Y	Y	N	N
Ul Haq ³⁷	2017	26	M	Y	U	U	U	Y	N	Y	Y	N	N
Ul Haq ³⁷	2017	47	M	Y	U	U	U	Y	N	Y	Y	N	N
Hamilton ²⁷	2017	50	M	U	U	U	U	Y	U	Y	Y	N	N
Mehta ²¹	2017	16	M	N	N	N	N	Y	N	Y	N	N	N

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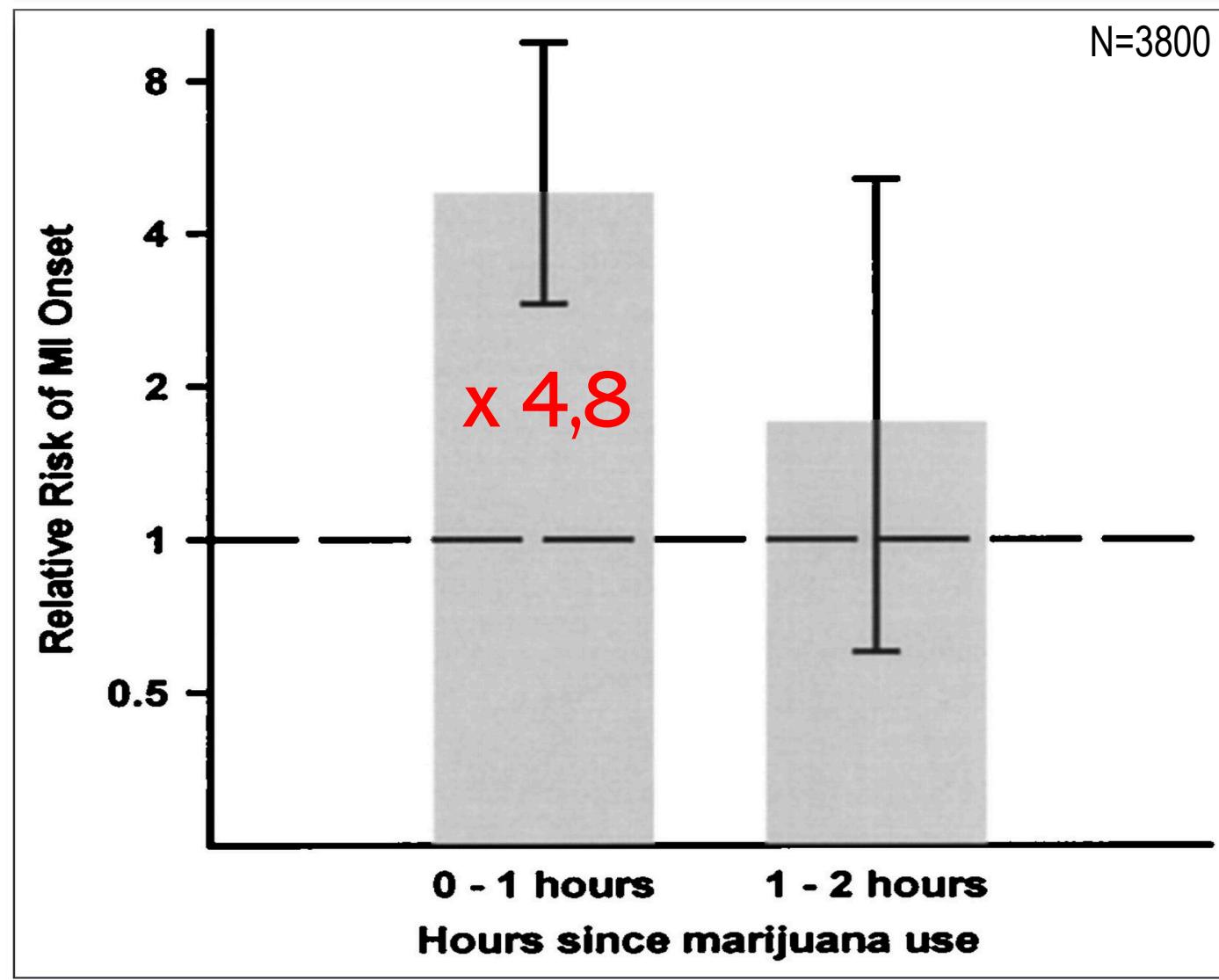


Is recent cannabis use associated with acute coronary syndromes? An illustrative case series

Casier, *Acta Cardiol*, 2017



Triggering Myocardial Infarction by Marijuana

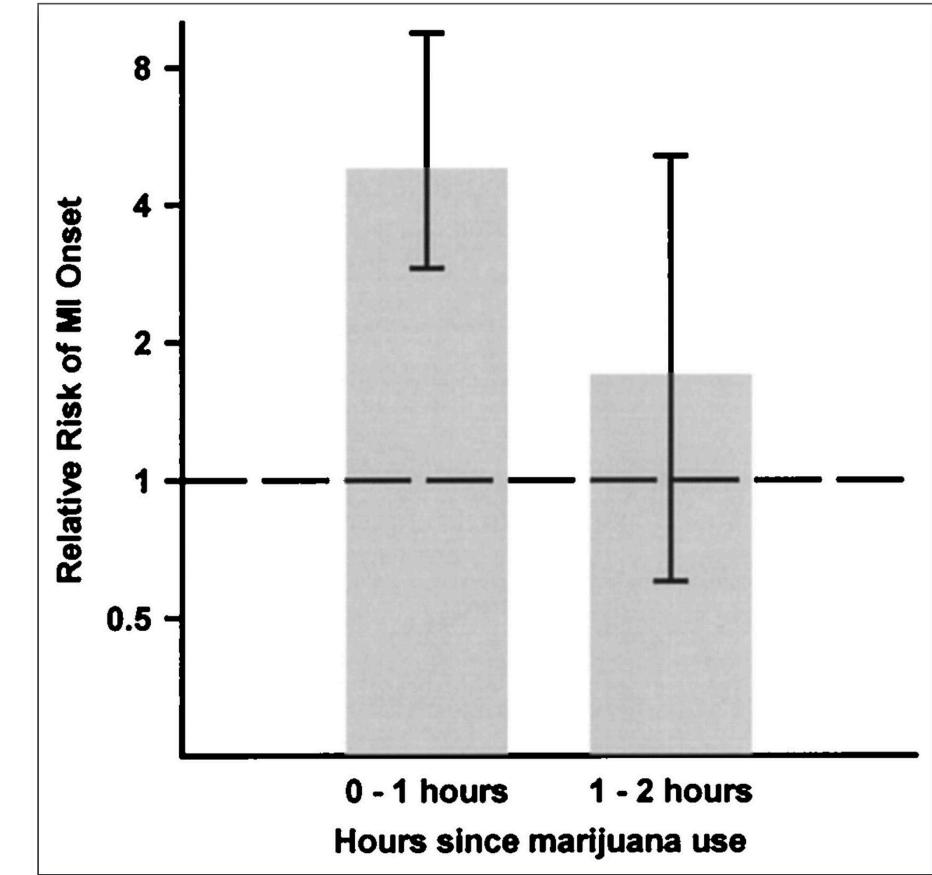


Mittleman, *Circulation*, 2001

CLINICAL INVESTIGATION AND REPORTS

Triggering Myocardial Infarction by Marijuana

Characteristic	Marijuana Users (n=124)	Marijuana Abstainers (n=3758)	P
Age			
Mean±SD	43.7±8.0	62.0±12.5	<0.001
<50	96 (77)	672 (18)	
50–69	28 (23)	1952 (52)	<0.001
70+	0 (0)	1134 (30)	
Sex			
Male	116 (94)	2508 (67)	
Female	8 (6)	1250 (33)	<0.001
Member of a minority group	28 (23)	495 (13)	0.003
Medical history			
Prior MI	29 (23)	1038 (28)	0.30
Prior angina	15 (12)	935 (25)	<0.001
Hypertension	37 (30)	1659 (44)	0.002
Diabetes mellitus	9 (7)	723 (19)	<0.001
Obese ¹	53 (43)	1184 (32)	0.008
Current smoker	84 (68)	1196 (32)	<0.001
Medication use before MI			
Aspirin	43 (35)	1414 (38)	0.51
Calcium channel blockers	16 (13)	911 (24)	0.004
β-blockers	16 (13)	817 (22)	0.02
ACE inhibitors	10 (8)	505 (13)	0.08



Mittelman, *Circulation*, 2001

RESEARCH

Recent cannabis use and myocardial infarction in young adults: a cross-sectional study

Ladha, CMAJ, 2021

N= 33.173

Table 3: Association between cannabis use and myocardial infarction among young adults from the 2017 and 2018 Behavioral Risk Factor Surveillance System surveys

Characteristic	Unadjusted OR for myocardial infarction (95% CI)	Adjusted OR for myocardial infarction* (95% CI)
Cannabis use		
No	Reference	Reference
Yes	1.92 (1.11–3.34)	2.07 (1.12–3.82)
Frequency of use†		
No use	Reference	Reference
Less frequent	1.26 (0.46–3.45)	1.48 (0.52–4.21)
More frequent	2.20 (1.21–3.99)	2.31 (1.18–4.50)

Role of Cannabis in the Incidence of Myocardial Infarction: A Review

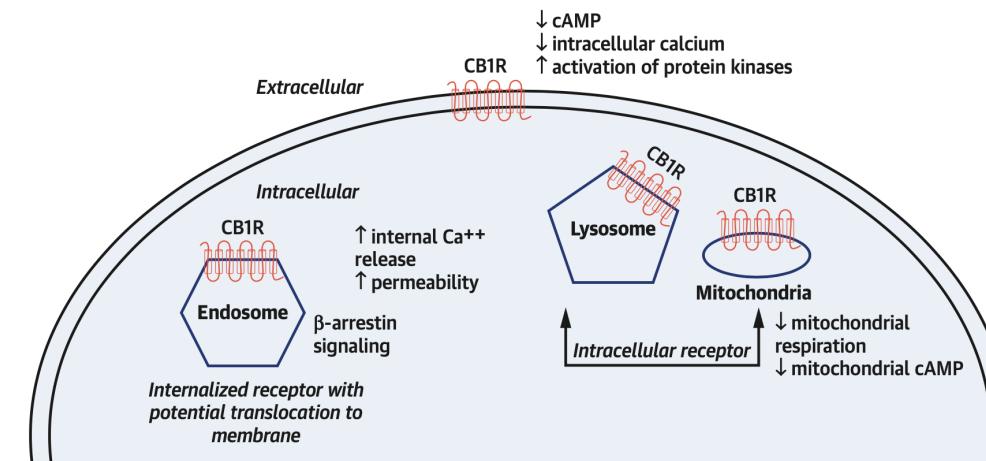
Banerjee, Cureus, 2020

distribution of marijuana in various states of the United States is the prime reason. Our study finds a strong relationship between marijuana use and the incidence of myocardial infarction and mortality of patients after cannabis-induced MI. Many cases in our research show that after marijuana use, even for the first time, there can be an event of MI, indicating that marijuana use should be considered a significant risk for MI. Mortality of patients after cannabis-induced MI could not be determined effectively due to insufficient data, but provided data says that there is a decrease in in-hospital mortality post-cannabis-induced MI. Various studies have proposed the pathophysiology of how these events occur. It is safe to say that cannabinoids act on the cannabinoid receptors to affect the cardiovascular system. They cause a mismatch in oxygen supply and demand in the myocardium, which can lead to ischemia. It can also increase platelet aggregation, which can lead to atherosclerosis, ultimately MI. The majority of the public use this for recreational purposes, thinking it is a safe drug, especially teenagers and older people. Public awareness about the ill-effects of marijuana is the need of the hour, and all physicians should always recognize those effects and advise their patients properly.

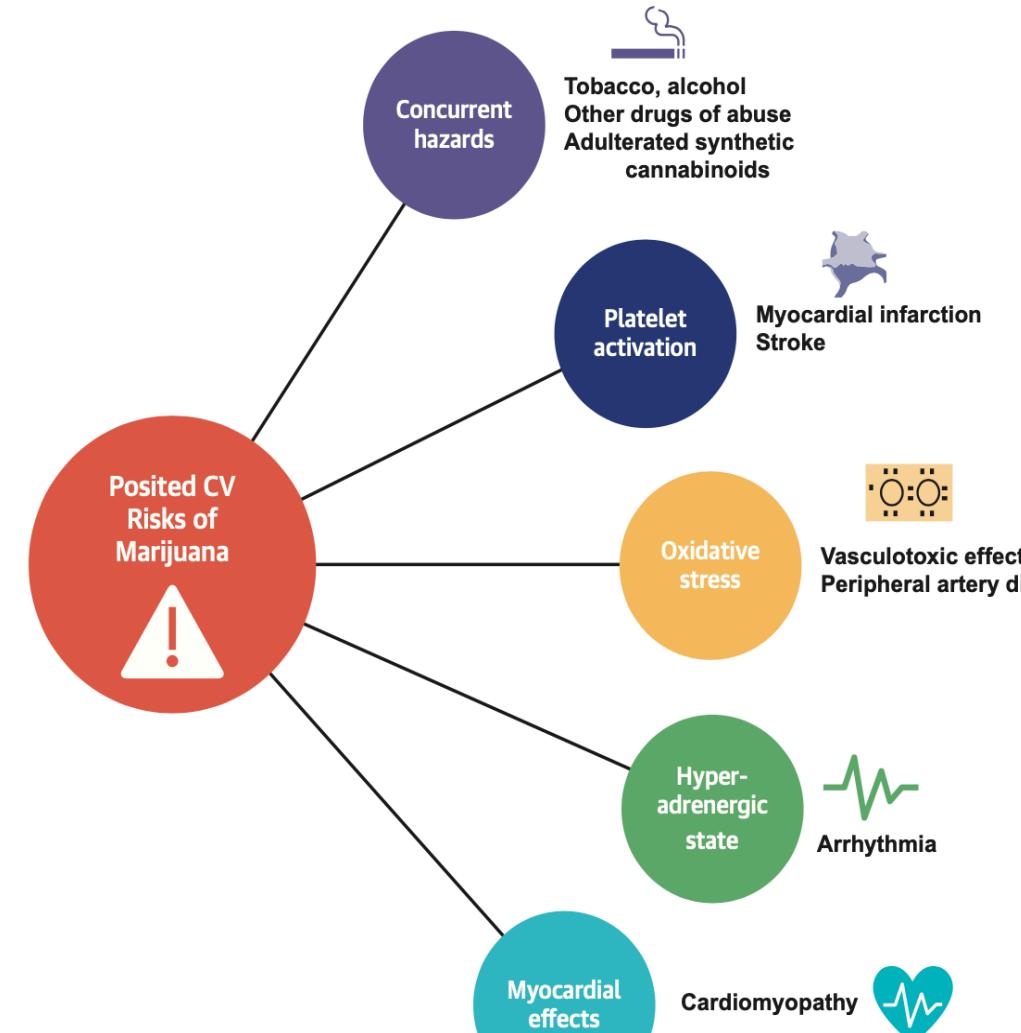
Marijuana Use in Patients With Cardiovascular Disease

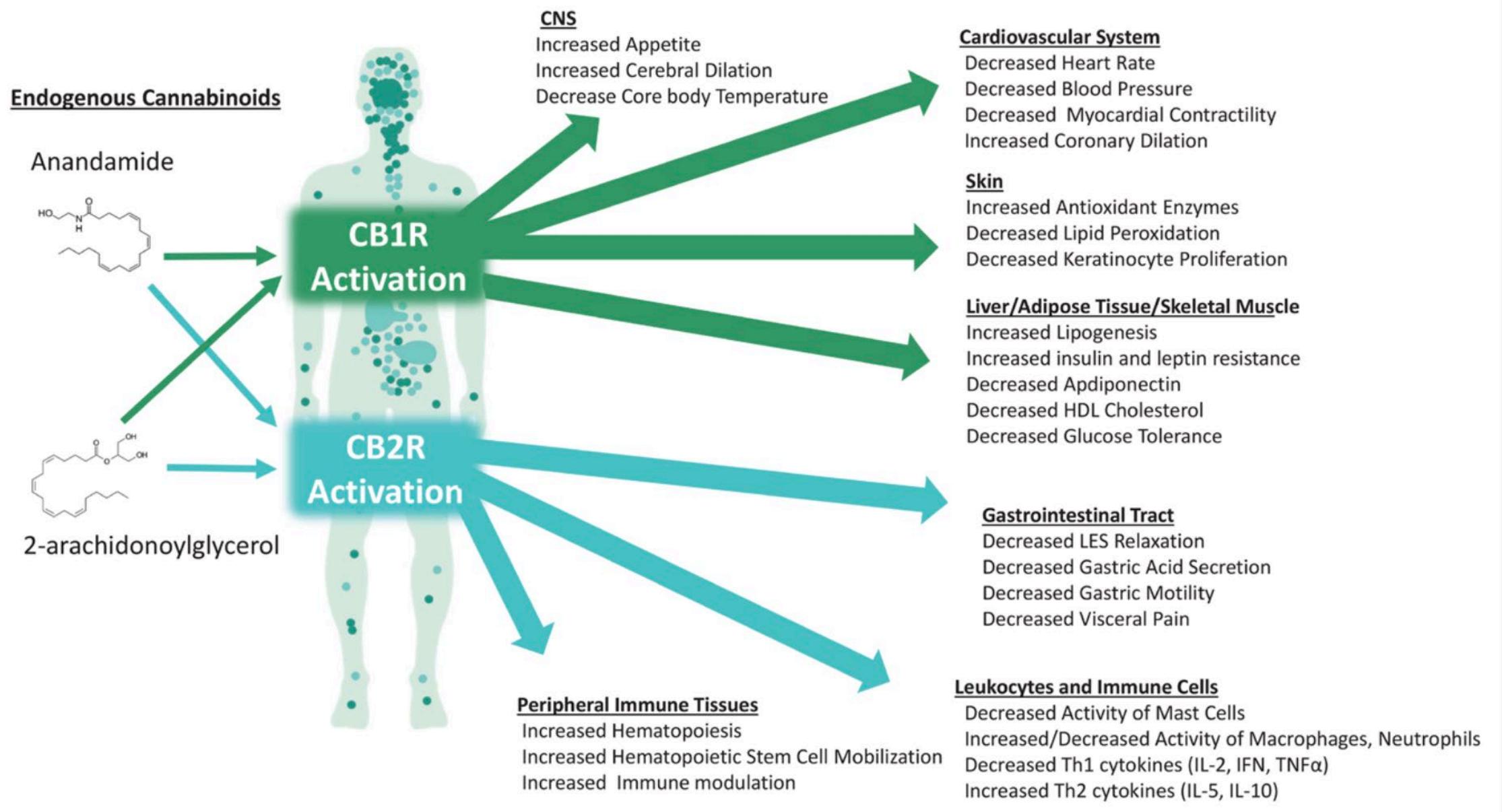
JACC Review Topic of the Week

FIGURE 1 Cellular Mechanisms of Marijuana Effects

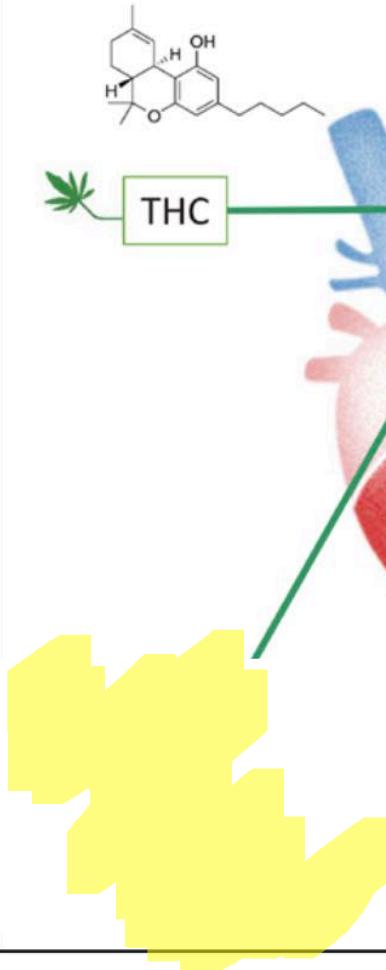


Cannabinoid receptor 1 (CB1R) is typically located on the cell surface and generally inhibits cyclic adenosine monophosphate (cAMP) formation that, in turn, decreases calcium influx. It can be internalized as a ligand-induced receptor mediating signaling pathway via β-arrestin. In contrast, intracellular CB1Rs do not translocate and can increase intracellular calcium through release of internal lysosomal calcium stores via increased membrane permeability. Additionally, CB1Rs located in mitochondria will decrease mitochondrial respiration and cAMP formation, thus regulating cellular energy metabolism.



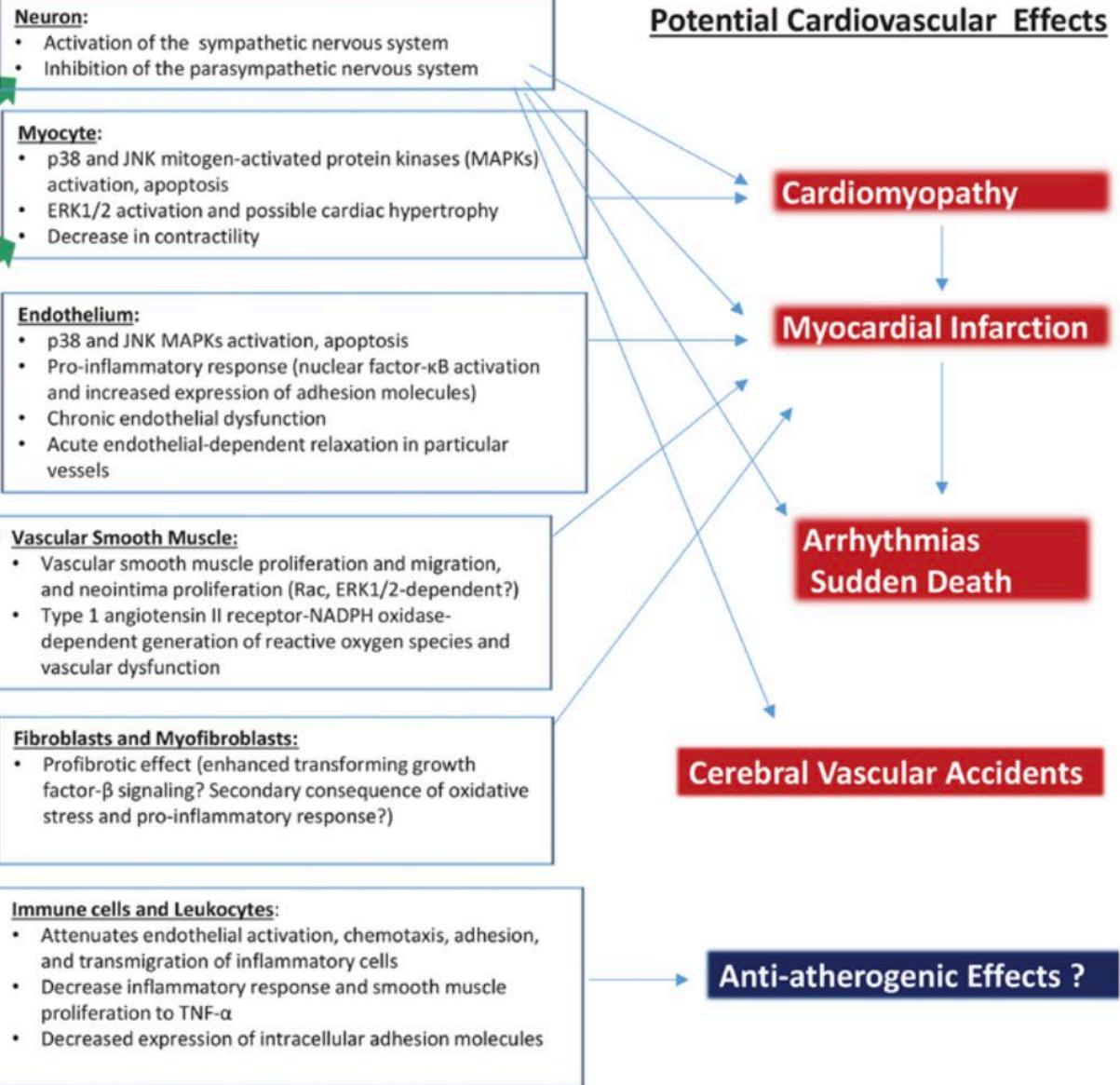


Exogenous Cannabinoids



CB2R
Activation

CB1R
Activation





WORDS:
TONY WALL
& HELEN KING

VISUALS:
CHRIS SKELTON

KILLER CHEMICALS

PART ONE

Inside NZ's synthetic cannabis crisis

100%
Bio

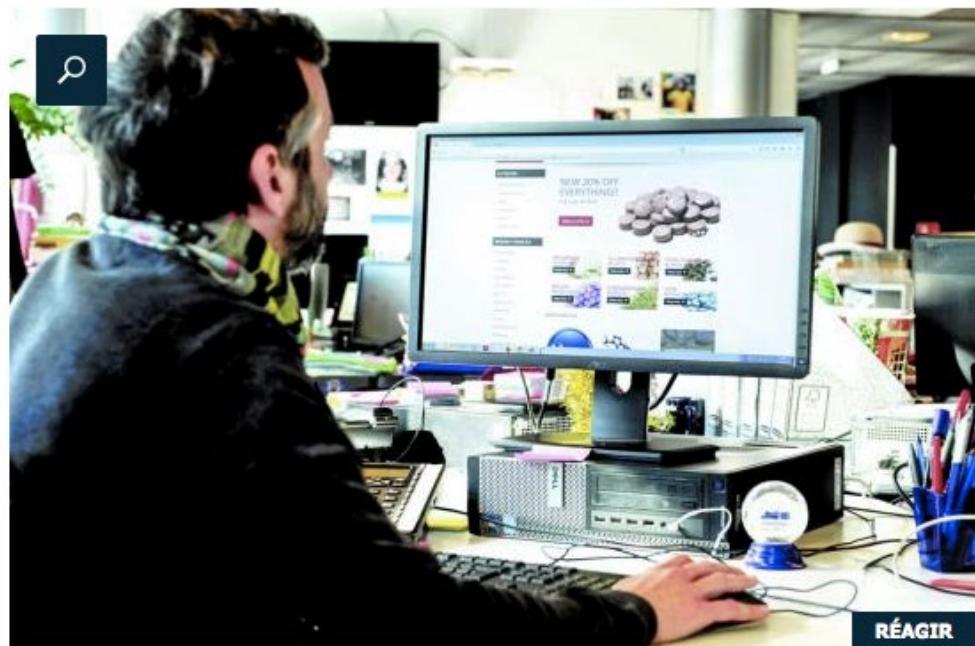




Des drogues dures qui arrivent en douce grâce au web

Les nouveaux produits de synthèse reproduisent les effets des stupéfiants. Difficiles à repérer, ces drogues – légales, puisque pas encore interdites ! – changent les habitudes des douaniers et des usagers.

Antoine Besse | 26 Juin 2015, 08h42 | MAJ : 26 Juin 2015, 11h50



RÉAGIR

Un site de vente de drogue légal, basé au Royaume-Uni, n'hésite pas à proposer une réduction de 20 % sur tous les produits !

Marc Chaumeil

No.984 du 8 au 14 octobre 2014

www.lesinrocks.com

les inRockuptibles

vivement
Truffaut!
Yelle
pop zinzin



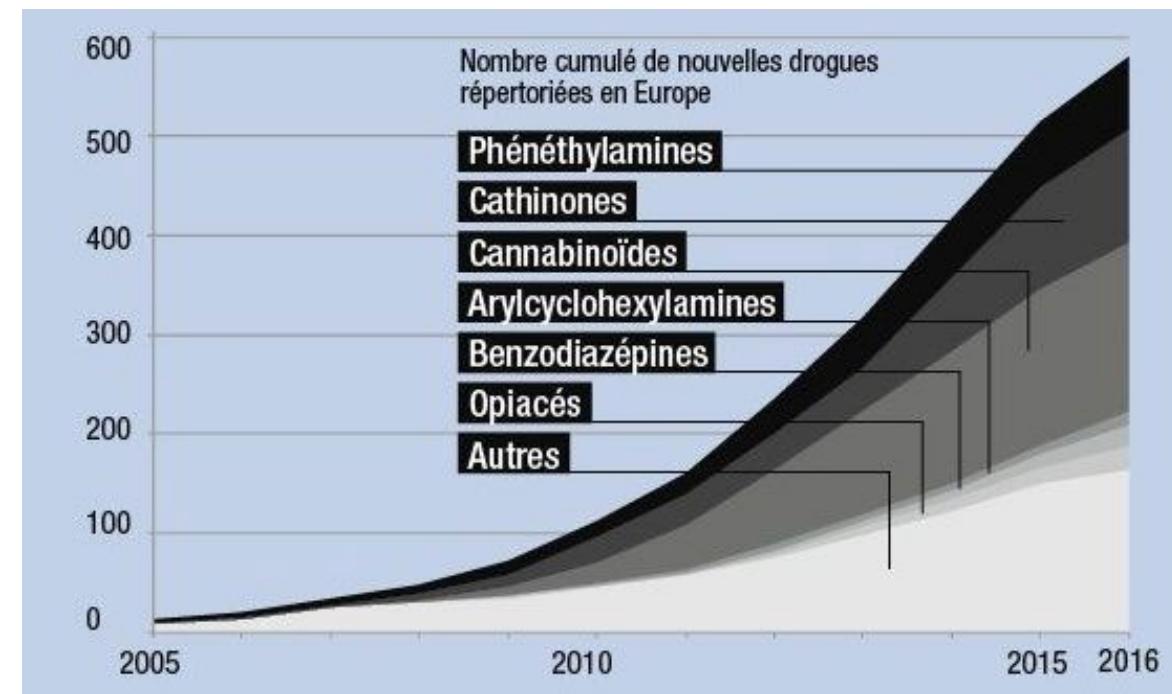
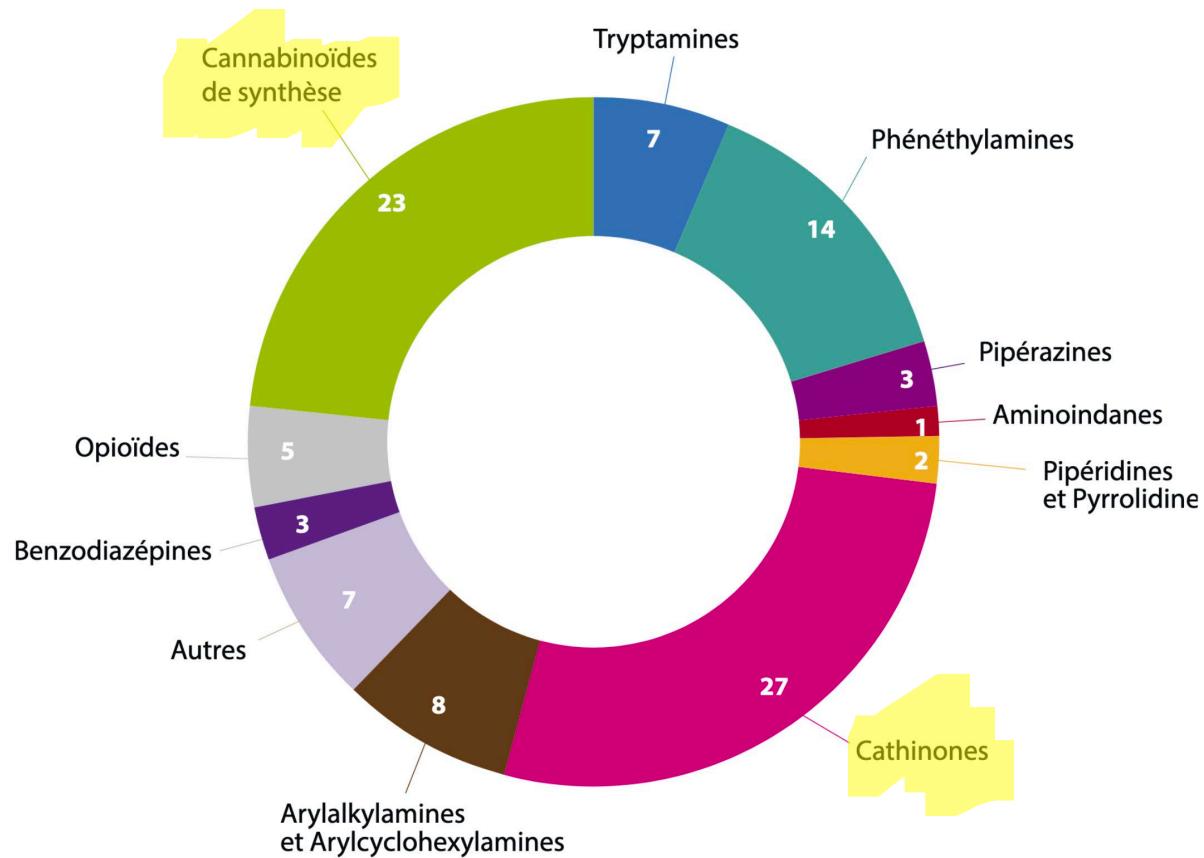
la défonce
à portée de clic

enquête sur les nouvelles drogues de synthèse

Astérisque 10 € - Belgique 11,90 € - Croatie 19,120 - 20,448 € - Espagne 12,90 € - Grèce 12,90 € - Irak 12,90 € - Luxembourg 13,90 € - Macao 16,30 € - Malte 11,100,00 € - Portugal 12,90 € - Suède 12,90 € - Tunisie 12,90 €



Figure 1. Nombre de NPS identifiés en France entre 2008 et avril 2017 par famille chimique (en %)



Cannabinoïdes de synthèse



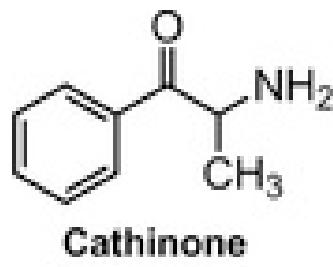
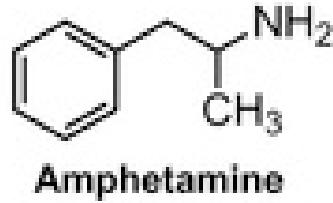
Chest pain, troponin rise, and ST-elevation in an adolescent boy following the use of the synthetic cannabis product K2

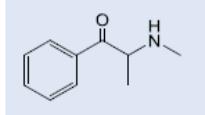
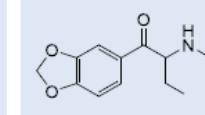
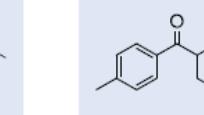
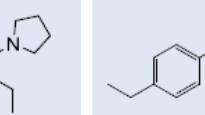
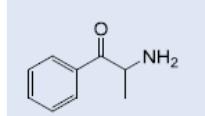
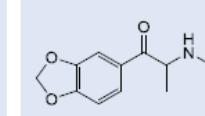
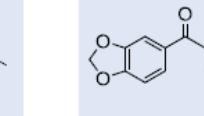
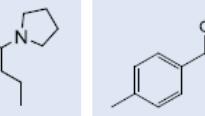
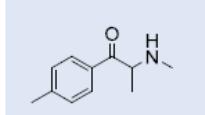
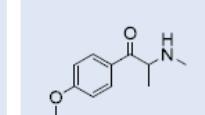
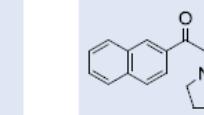
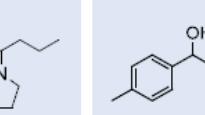
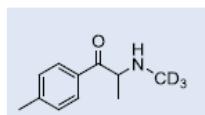
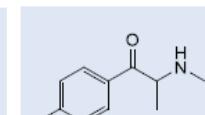
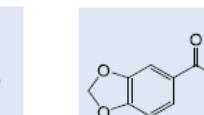
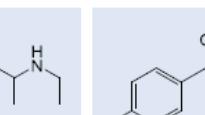
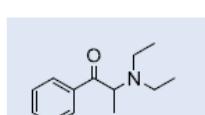
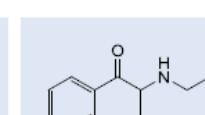
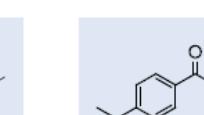
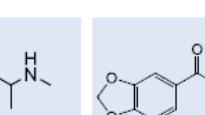


Zaleta, Ann Pediatr Cardiol, 2016

Cathinones de synthèse



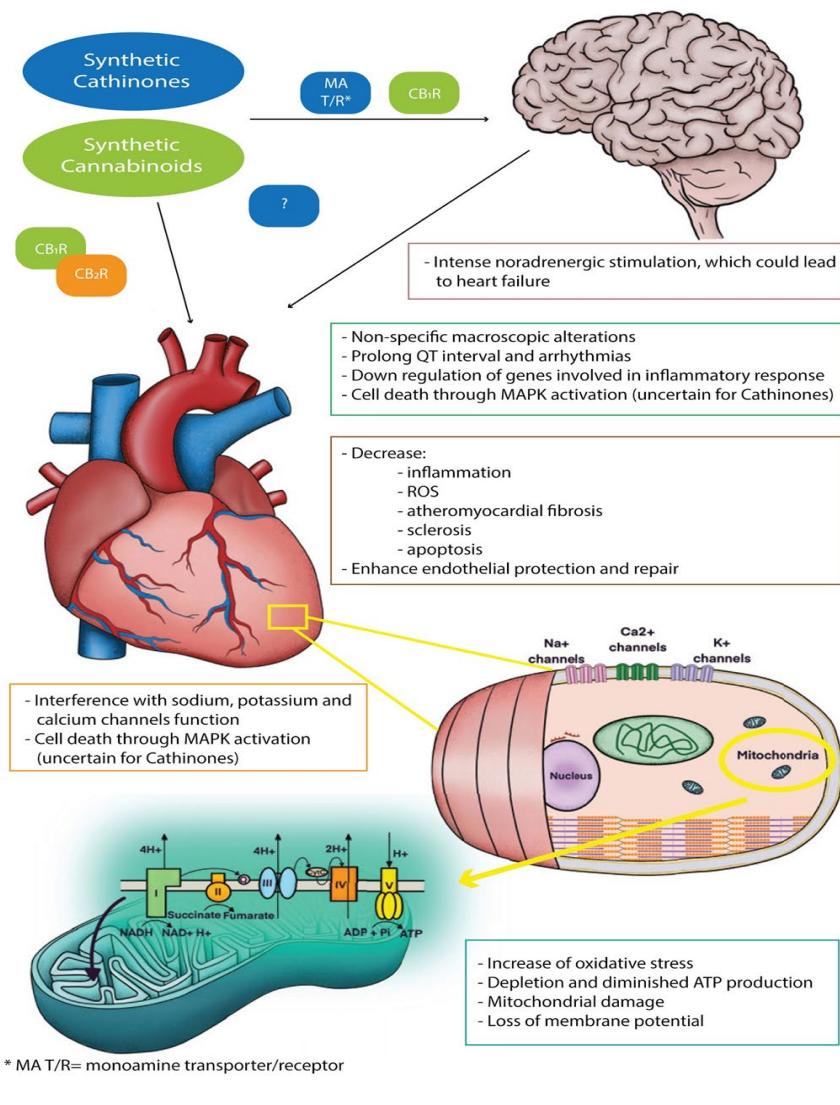


			
MCA-835-HC 835 d,l-Methcathinone.HCl (Ephedrone.HCl) ● ● ■	BTL-1288-HC 1288 Butyline.HCl (bk-MBDB.HCl) ● ● ■	PYR-1333-HC 1333 Pyrovalerone.HCl ● ● ■	ETE-1405-HC 1405 d,l-4-Ethylephedrine.HCl ● ● ■
			
CAT-890-HC 880 d,l-Cathinone.HCl ● ● ■	MTY-1289-HC 1289 Methyline.HCl (bk-MDMA.HCl) ● ● ■	PYR-1340-HC 1340 3,4-Methylenedioxypyrovalerone.HCl ● ● ■	MTE-1406-HC 1406 d,l-4-Methyl-ephedrine.HCl ● ● ■
			
MMC-1252-HC 1252 Mephedrone.HCl (4-MMC.HCl) ● ● ■	MTH-1290-HC 1290 Methedrone.HCl (bk-PMMA.HCl) ● ● ■	NPH-1396-HC 1396 Naphyrone.HCl (O-2482) ● ● ■	MEE-1455-HC 1455 d,l-4-Methyl-N-ethyl-norephedrine.HCl ● ● ■
			
MMC-1271-HC 1271 Mephedrone-D ₃ .HCl (4-MMC-D ₃ .HCl) ● ● ■	FMC-1291-HC 1291 Flephedrone.HCl (4-FMC.HCl) ● ● ■	ETY-1399-HC 1399 Ethylone.HCl (bk-MDEA.HCl) ● ● ■	FEP-1456-HC 1456 d,l-4-Fluoro-ephedrine.HCl ● ● ■
			
AMF-1286-HC 1286 Amfepramone.HCl (Diethylpropion.HCl) ● ● ■	MEC-1299-HC 1299 4-Methylcathinone.HCl (4-MEC.HCl) ● ● ■	ETM-1402-HC 1402 4-Ethylmethcathinone.HCl (4-EMC.HCl) ● ● ■	MTY-1464-HC 1464 Methyline-D ₃ .HCl (bk-MDMA-D ₃ .HCl) ● ● ■

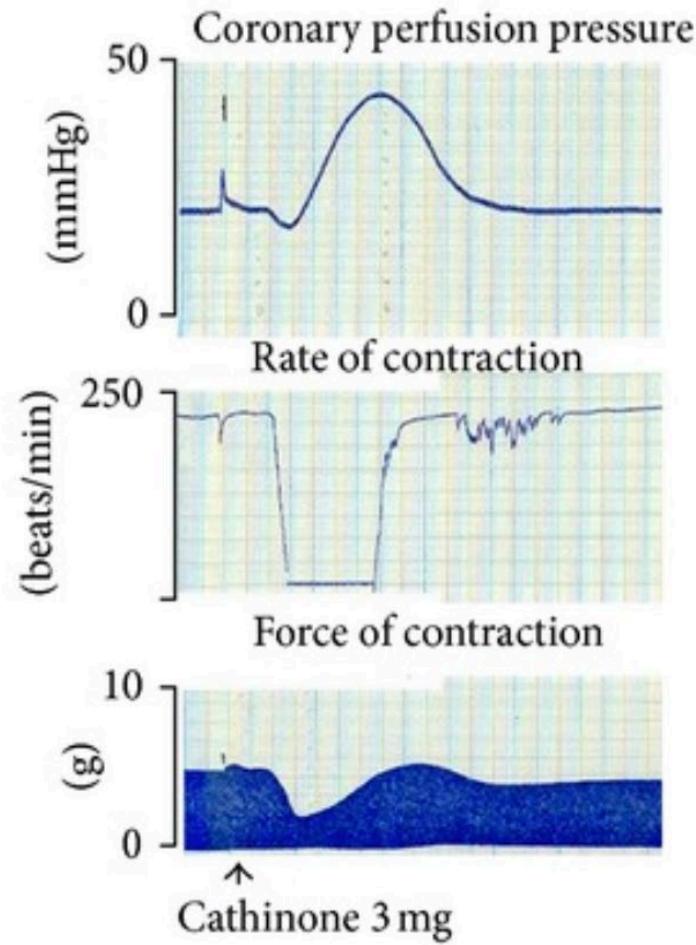
Khat chewing is a risk factor for acute myocardial infarction: a case-control study

Al-Motarreb, *Br J Clin Pharmacol*, 2005

	OR	95% CI	P-value
<i>Model without dose</i>			
Civil servant	0.09	0.03–0.27	0.0001
Khat chewer	5.83	1.86–18.24	0.0025
Cigarette smoker	7.02	2.47–19.99	0.0003
<i>Duration of khat chewing session (h)</i>			
3 or less	4.46	1.05, 18.96	0.0428
4–5	17.05	3.04, 95.55	0.0013
6 and more	39.33	3.88, 398.48	0.0019
<i>Number of cigarettes per day</i>			
1–10	1.79	0.37, 8.65	0.4660
11–20	17.57	2.85, 108.52	0.0020
More than 20	32.98	4.22, 257.93	0.0009
<i>Restricted to khat effective period (14.00–24.00 h) (n = 66)</i>			
Civil servant	0.12	0.038, 0.409	0.0006
Khat chewer	8.96	1.8, 44.61	0.0074
Cigarette smoker	4.84	1.549, 15.14	0.0067



Coronary vascular pharmacology of cathinone

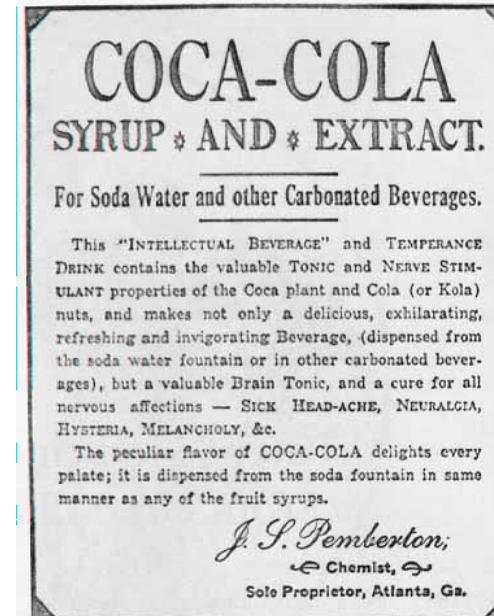


- Guinea pig isolated Langendorff heart preparation
- Cathinone causes coronary vasoconstriction and negative inotropic effect



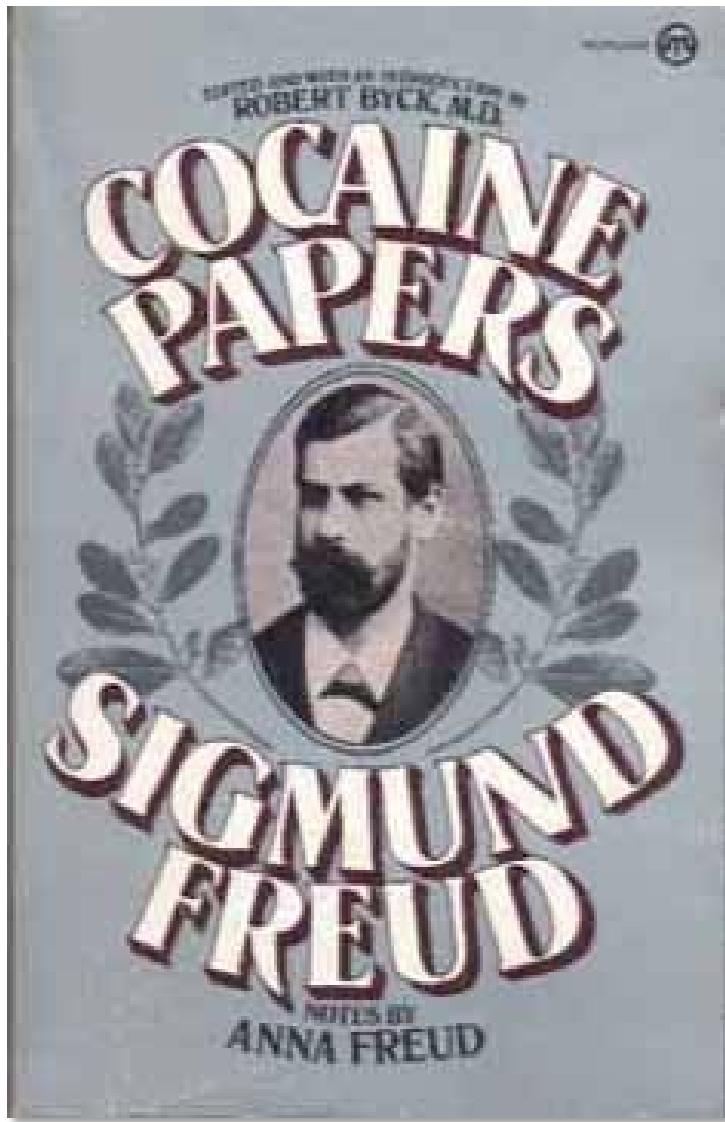


John Styth Pemberto



Année de disparition la cocaïne ?





« Approuvé par...

Frédéric Auguste Bartholdi, Anatole France, Jules Verne, Alexander Dumas, Sir Arthur Conan Doyle, Robert Louis Stephenson...

Célébré par les figures royales et religieuses : la reine Victoria, le roi George, le grand Rabbin de France Zadoc Kahn, les papes Pie X et Léon XIII »



« La cocaïne a une action remarquable sur les nerfs de la langue (...) à son contact, elle devient anesthésiée et insensible... »

Friedrich Wohler, 1860



Première anesthésie locale oculaire

Carl Köller, *Wien Med Wochenschr*, 1884



Corning, Spinal anesthesia and local medication of the cord. *N Y Med J*, 1885

Koller, Historical notes on the beginning of local anesthesia, *JAMA*, 1928

Altman, Cocaine's use in ophthalmology: our 100-year heritage. *Surv Ophthalmol*, 1985

Goerig, *Reg Anesth Pain Med*, 2012



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Instantaneous Cure!
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LLOYD MANUFACTURING CO.

300 MADISON AV., ALBANY, N.Y.

For sale by all Druggists.

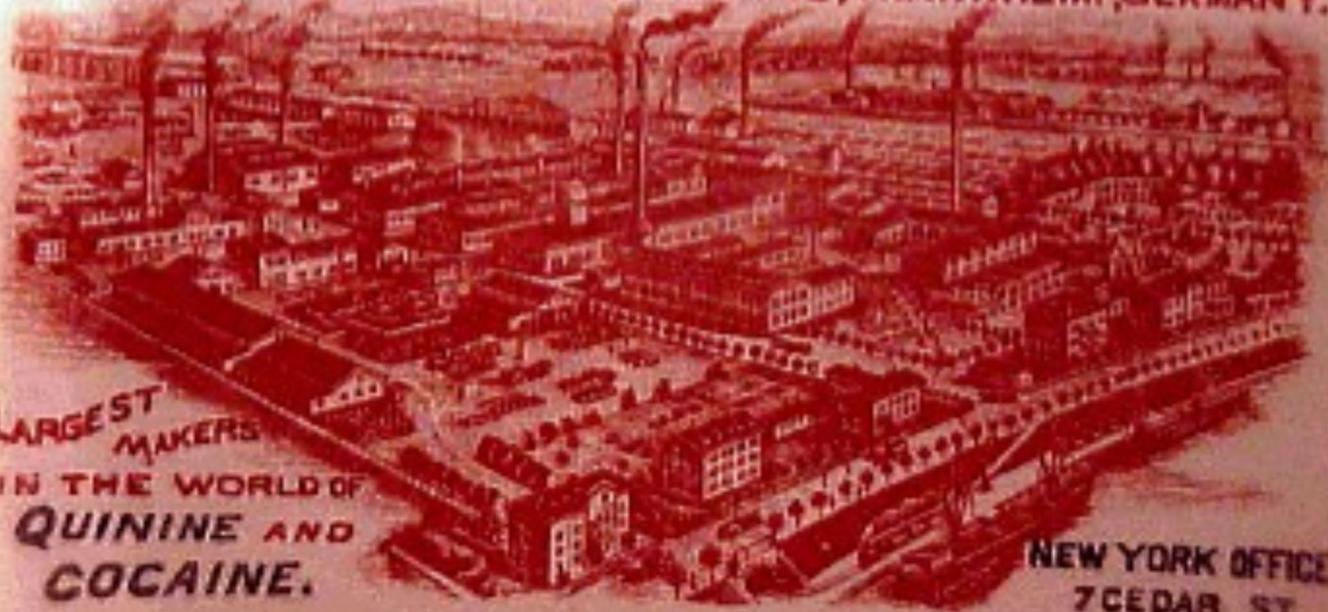
Patented March 1, 1883.

Per bottle, 14¢

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IRON TONIC AND FOOD. ANTI PYRETIC, SEDATIVE, ETC.
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The NEW ENGLAND
JOURNAL of MEDICINE

Cocaine-Induced Coronary-Artery Vasoconstriction

Richard A. Lange, M.D., Ricardo G. Cigarroa, M.D., Clyde W. Yancy, Jr., M.D., John E. Willard, M.D., Jeffrey J. Popma, M.D., Michael N. Sills, M.D., Wade McBride, M.D., Anatole S. Kim, M.D., and L. David Hillis, M.D.

ORIGINAL ARTICLE

Volume 321:1557-1562 December 7, 1989 Number 23

Cocaïne & infarctus du myocarde

- sans lésion coronaire
- sans facteurs de risque
- voire sur coronaires saines

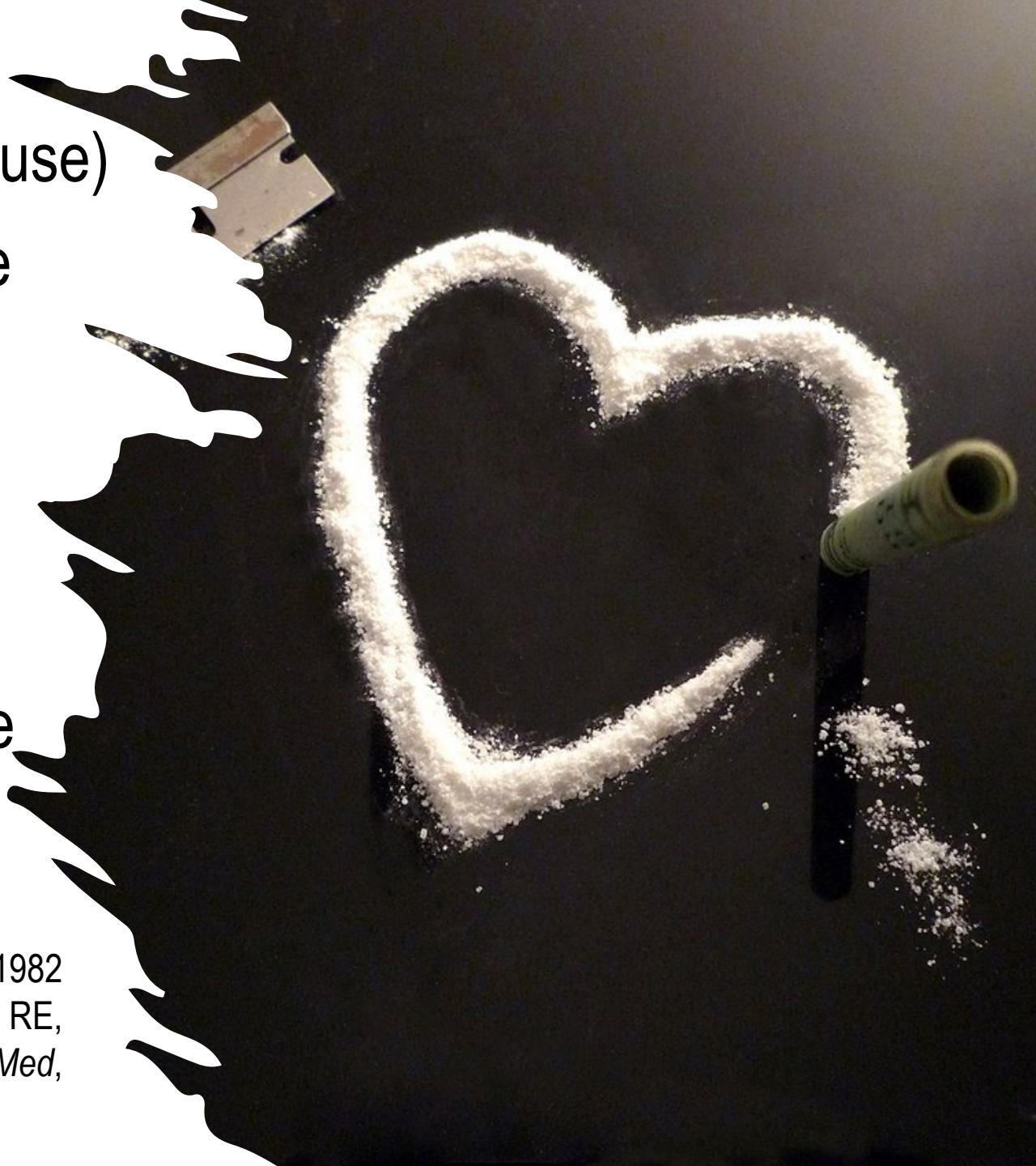
Wilkinson, *Clin Pharmac Therap*, 1980 ; Coleman, *West J Med*, 1982
; Kossowsky, *Chest*, 1984 ; Cregler, *Am J Cardiol*, 1985 ; Howard RE,
JAMA, 1985 ; Lange, *New Engl J Med*, 1989; Lange, *Ann Intern Med*,
1990 ; Amin, *Am J Cardiol*, 1990 ; Dressler, *Am J Cardiol*, 1990



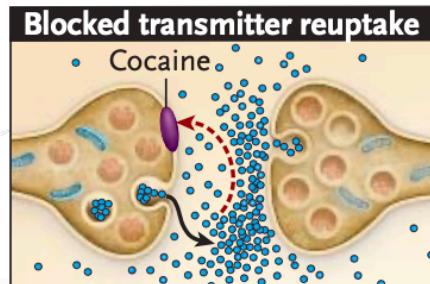
- Vasoconstriction artérielle (et veineuse)
- Tachycardie, hypertension artérielle
- Augmentation travail myocardique, consommation O_2
- Diminution apports O_2

Athérome et agrégabilité plaquettaire

Wilkinson, *Clin Pharmac Therap*, 1980 ; Coleman, *West J Med*, 1982 ; Kossowsky, *Chest*, 1984 ; Cregler, *Am J Cardiol*, 1985 ; Howard RE, *JAMA*, 1985 ; Lange, *New Engl J Med*, 1989; Lange, *Ann Intern Med*, 1990 ; Amin, *Am J Cardiol*, 1990 ; Dressler, *Am J Cardiol*, 1990



Acute Effects of Cocaine



α - and/or β -Adrenergic effect

Increased blood pressure Increased heart rate

Increased oxygen demand

α -Adrenergic effect

Coronary spasm

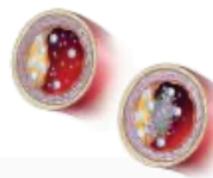
Decreased oxygen delivery

Ischemia, infarction,
arrhythmia

Chronic Effects of Cocaine



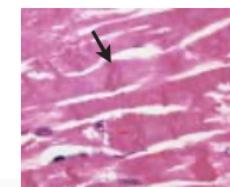
Dilated or
hypertrophic
cardiomyopathy



Accelerated
atherosclerosis



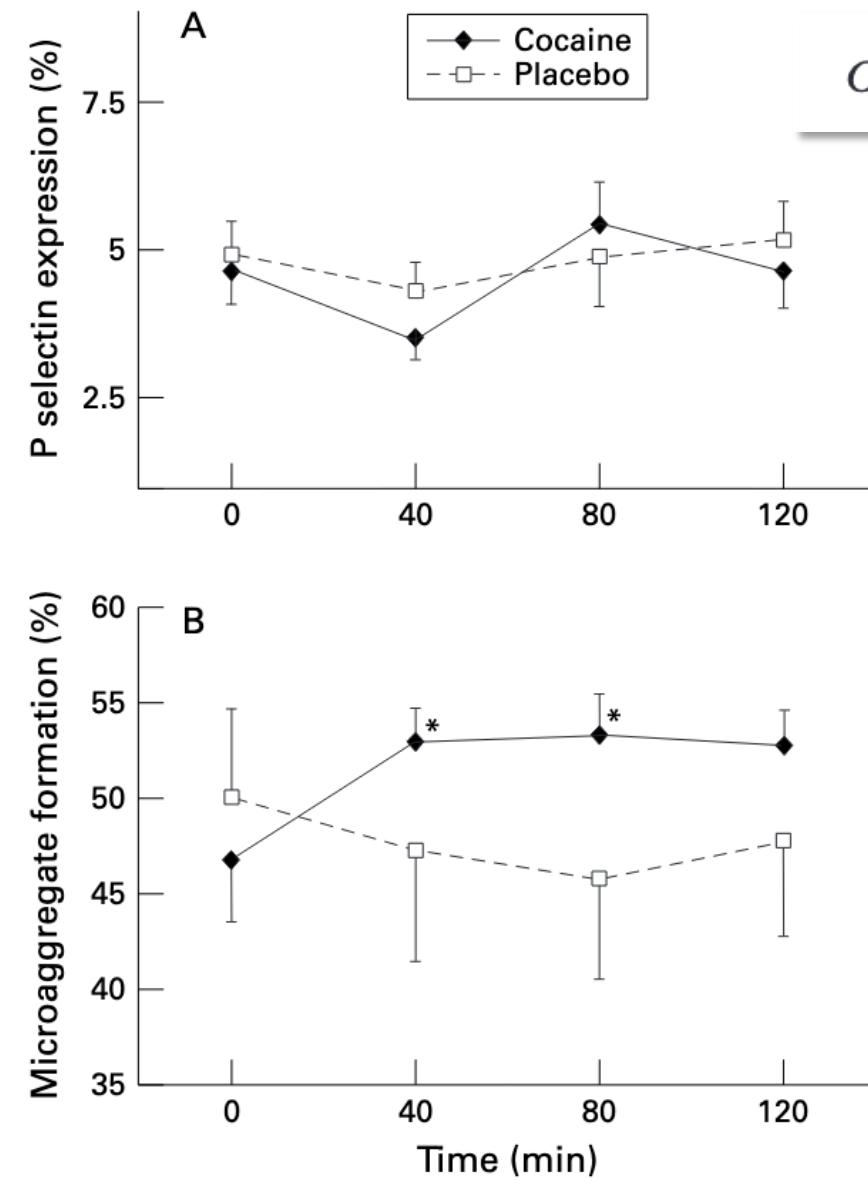
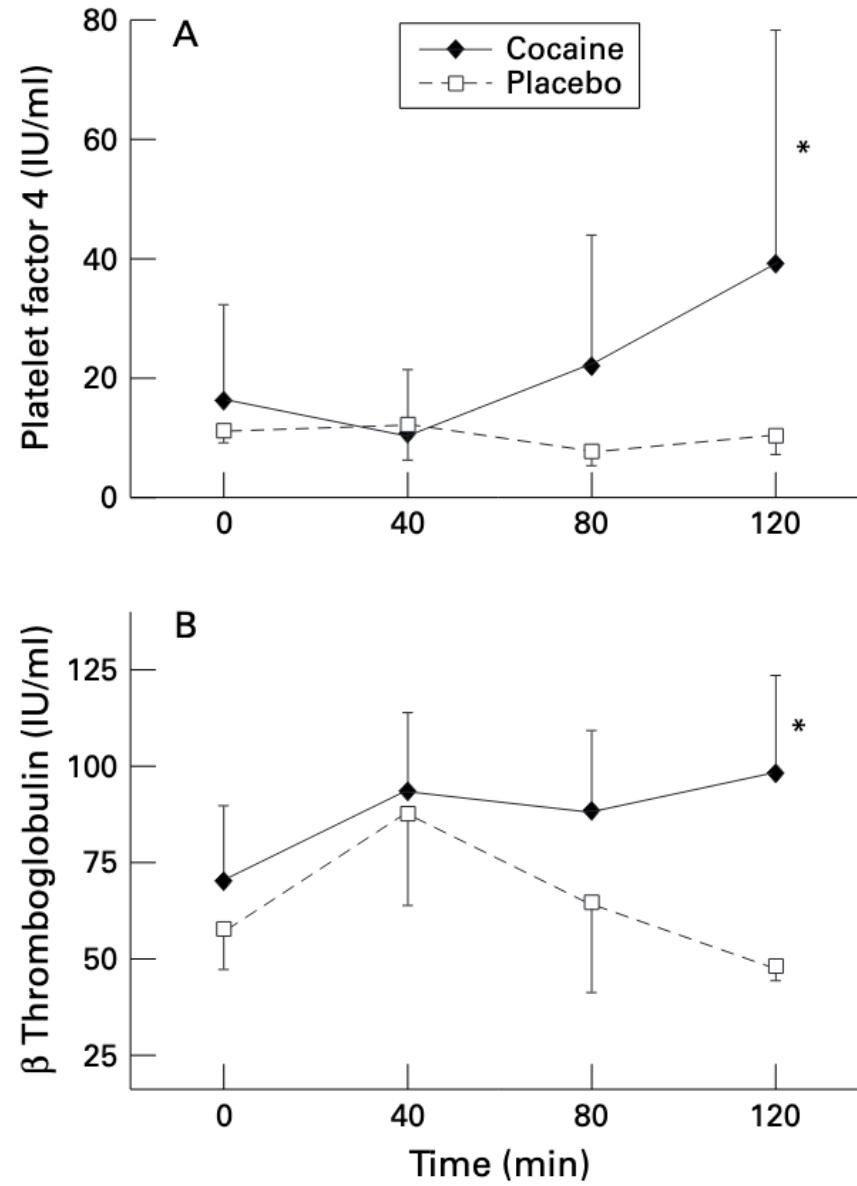
Myocarditis



Contraction-band
necrosis

Selected Acute and Chronic Effects of Cocaine on the Heart.





Cocaine activates platelets in vivo

Heesch, Heart, 2000

Circulation

JOURNAL OF THE AMERICAN HEART ASSOCIATION

American Heart
Association® 

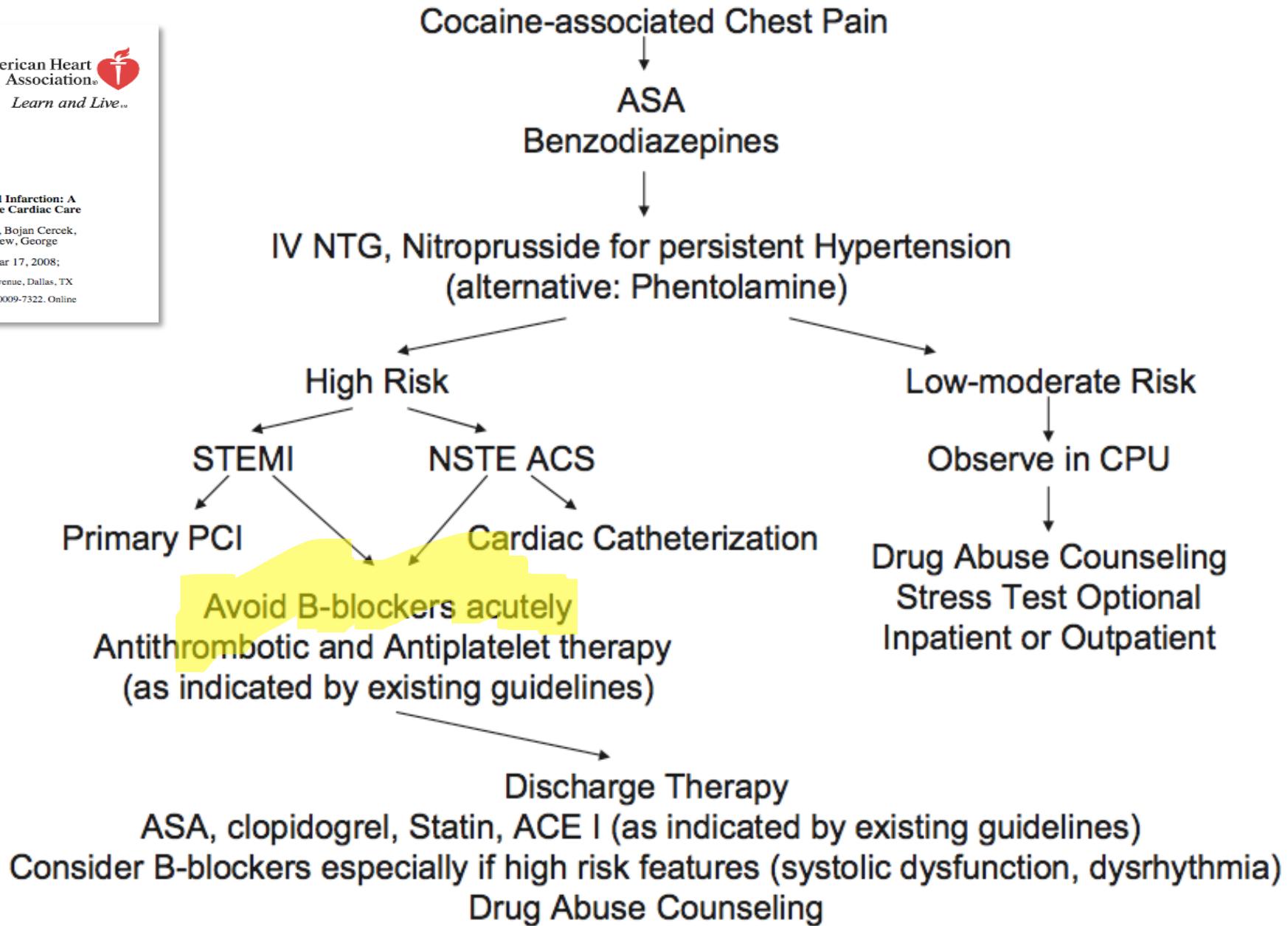
Learn and Live...

Management of Cocaine-Associated Chest Pain and Myocardial Infarction: A Scientific Statement From the American Heart Association Acute Cardiac Care Committee of the Council on Clinical Cardiology

James McCord, Hani Jneid, Judd E. Hollander, James A. de Lemos, Bojan Cercek, Priscilla Hsue, W. Brian Gibler, E. Magnus Ohman, Barbara Drew, George Philippides and L. Kristin Newby

Circulation 2008;117:1897-1907; originally published online Mar 17, 2008;
DOI: 10.1161/CIRCULATIONAHA.107.188950

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The Potential **Risks** and **Dangers** of BETA BLOCKERS



© iStock.com / GOLF3530

Traitement logique : référence des années 80

Rappolt, *Lancet*, 1976

The Potential Risks



Catravas, NEJM, 1977	Dose	Décès
Témoins (N=10)	-	100% en 41'
Propranolol (prétraitement) (N=5)	6-10 mg/kg	100% en 38'
Chlorpromazine (prétraitement) (N=6)	12 mg	0%

The Potential

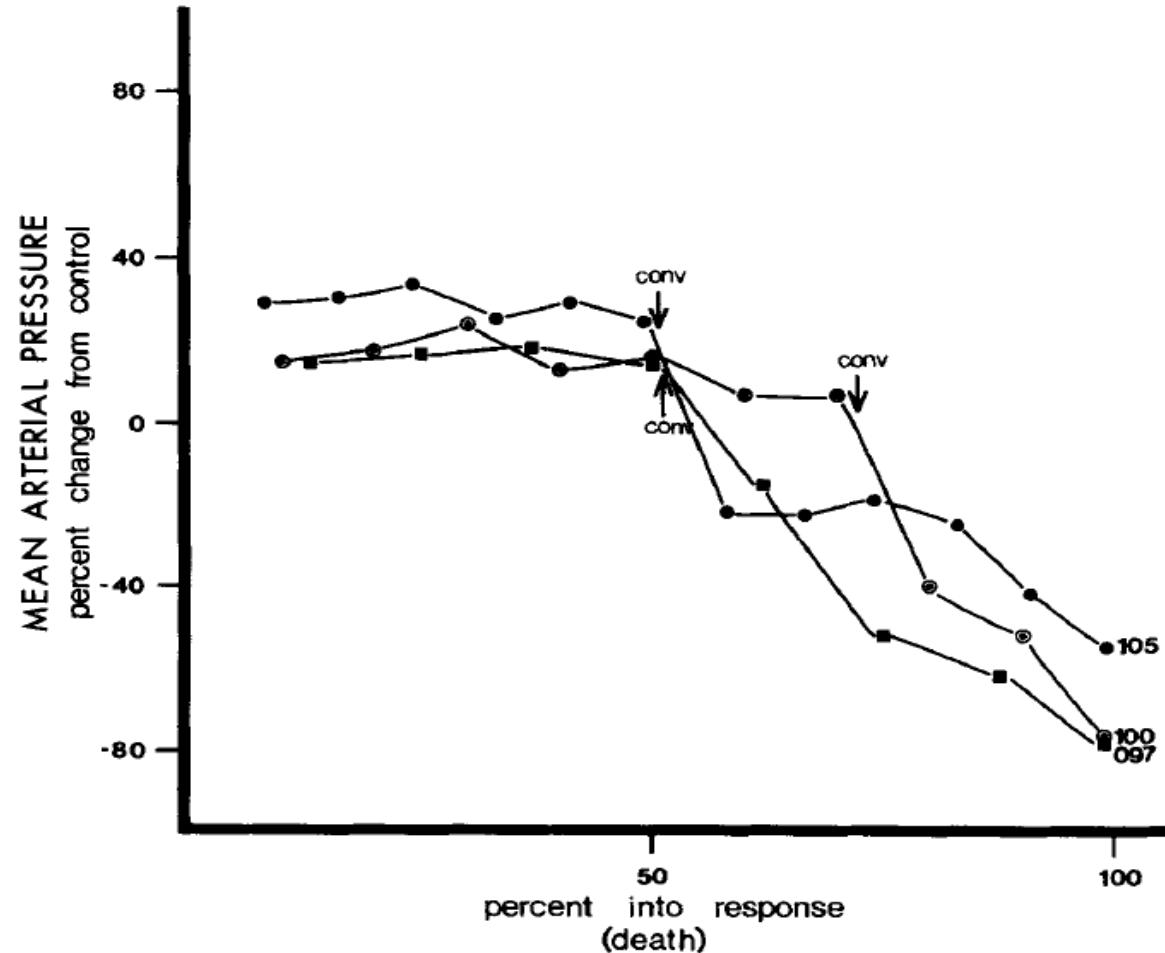
Guinn, *Clin Toxicol*, 1980

Témoins

Propranolol

Diazepam

Chlorpromazine



The Potential

30 volontaires sains devant subir

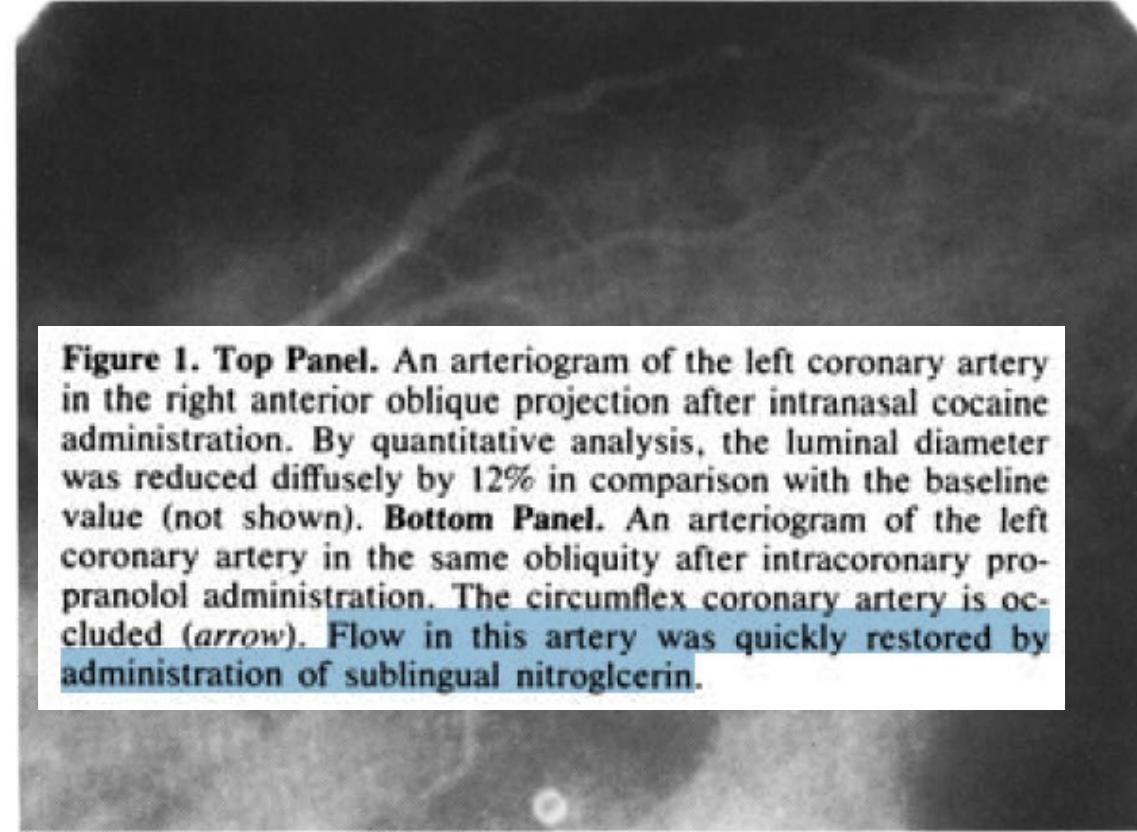
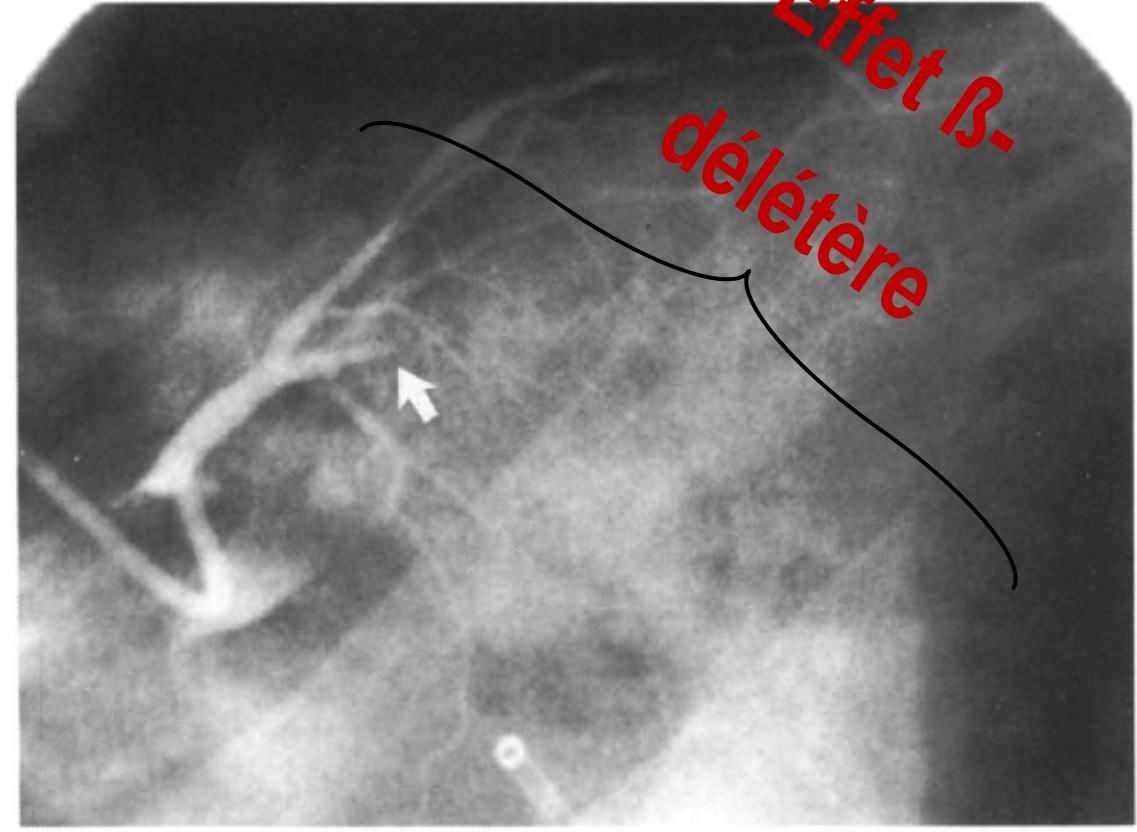
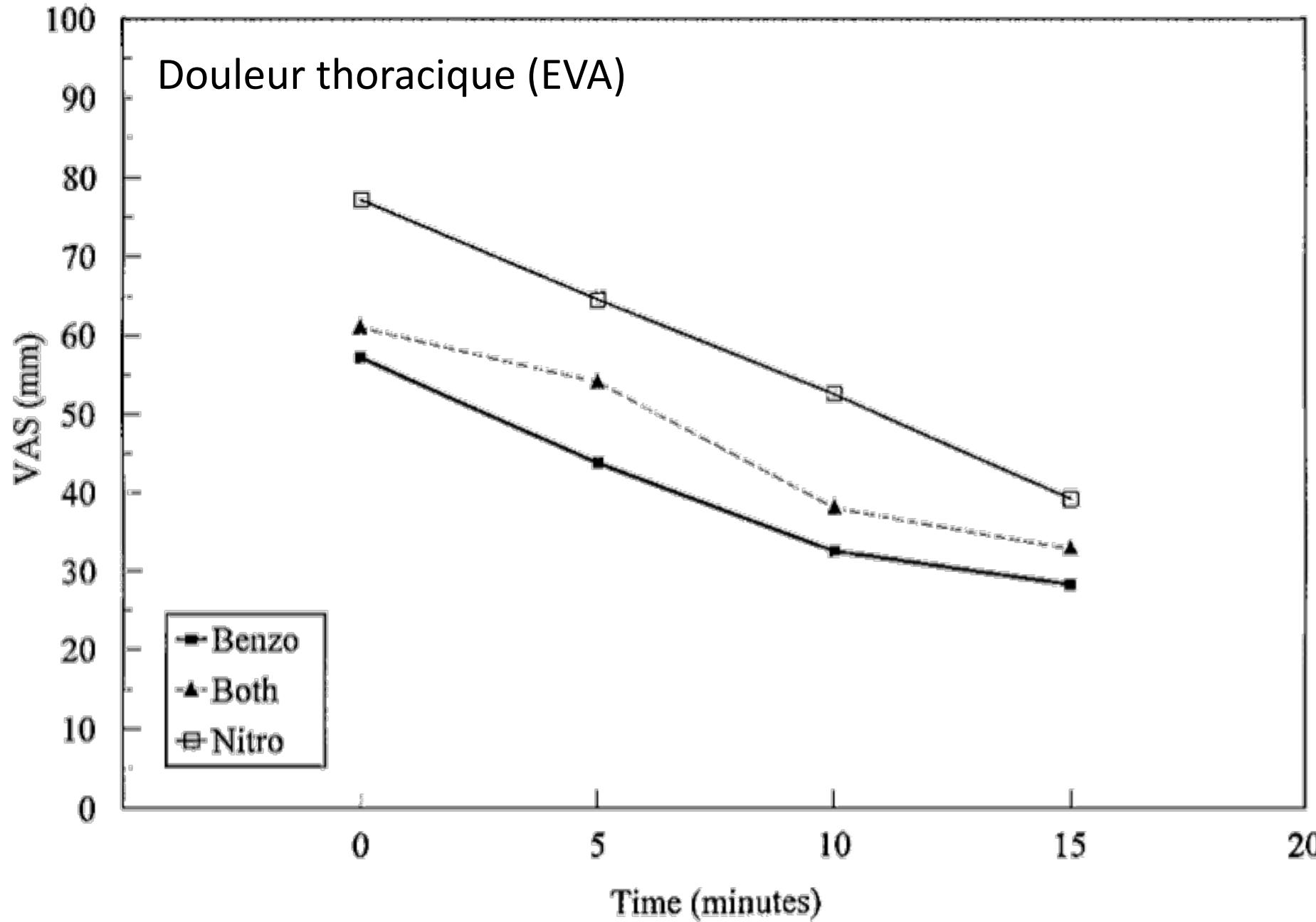


Figure 1. Top Panel. An arteriogram of the left coronary artery in the right anterior oblique projection after intranasal cocaine administration. By quantitative analysis, the luminal diameter was reduced diffusely by 12% in comparison with the baseline value (not shown). Bottom Panel. An arteriogram of the left coronary artery in the same obliquity after intracoronary propranolol administration. The circumflex coronary artery is occluded (arrow). Flow in this artery was quickly restored by administration of sublingual nitroglycerin.

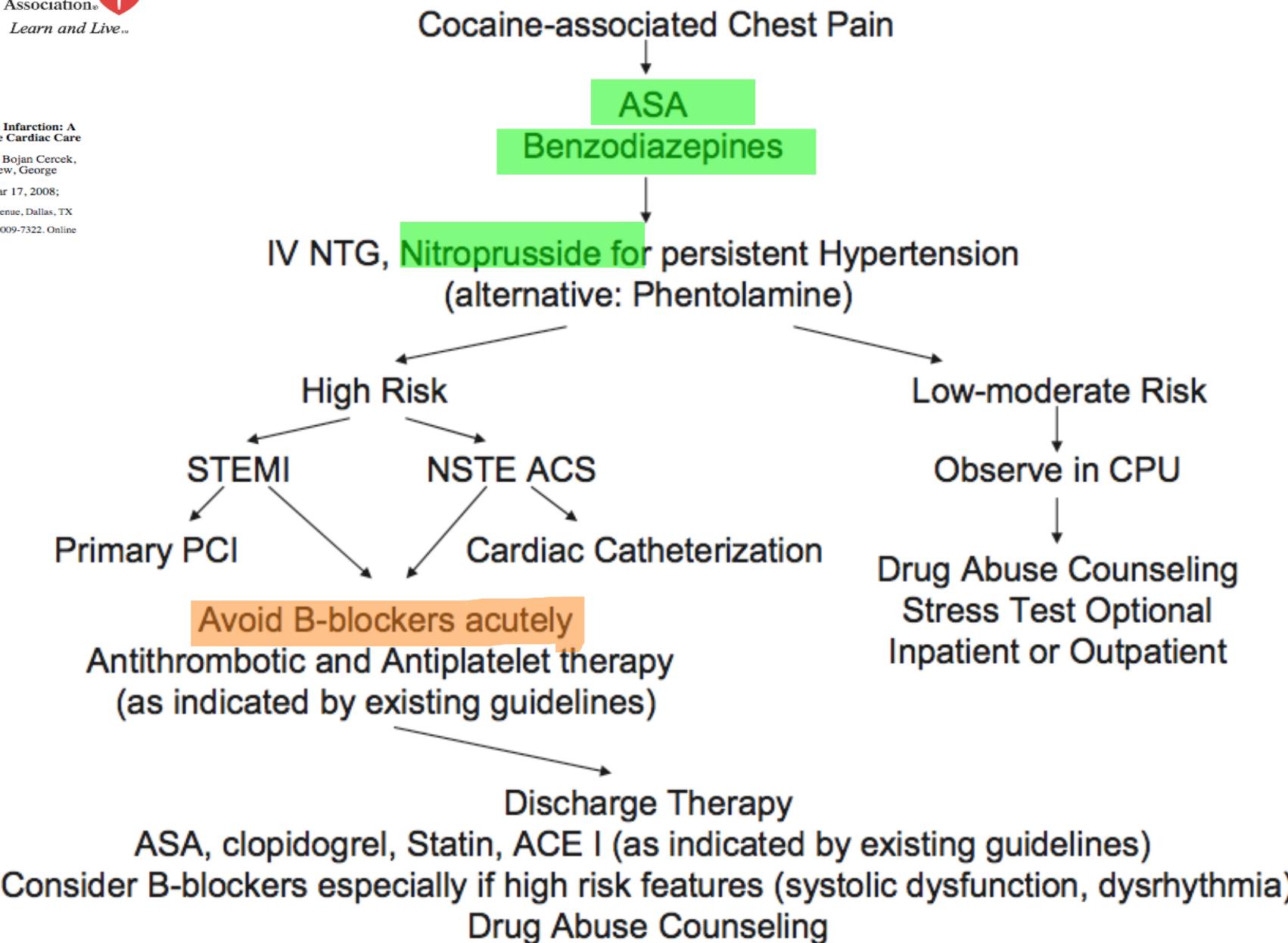


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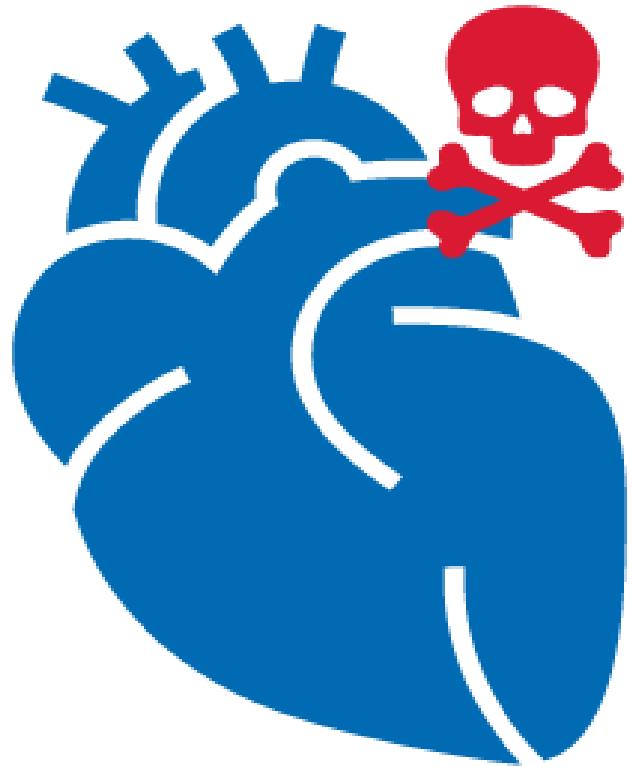


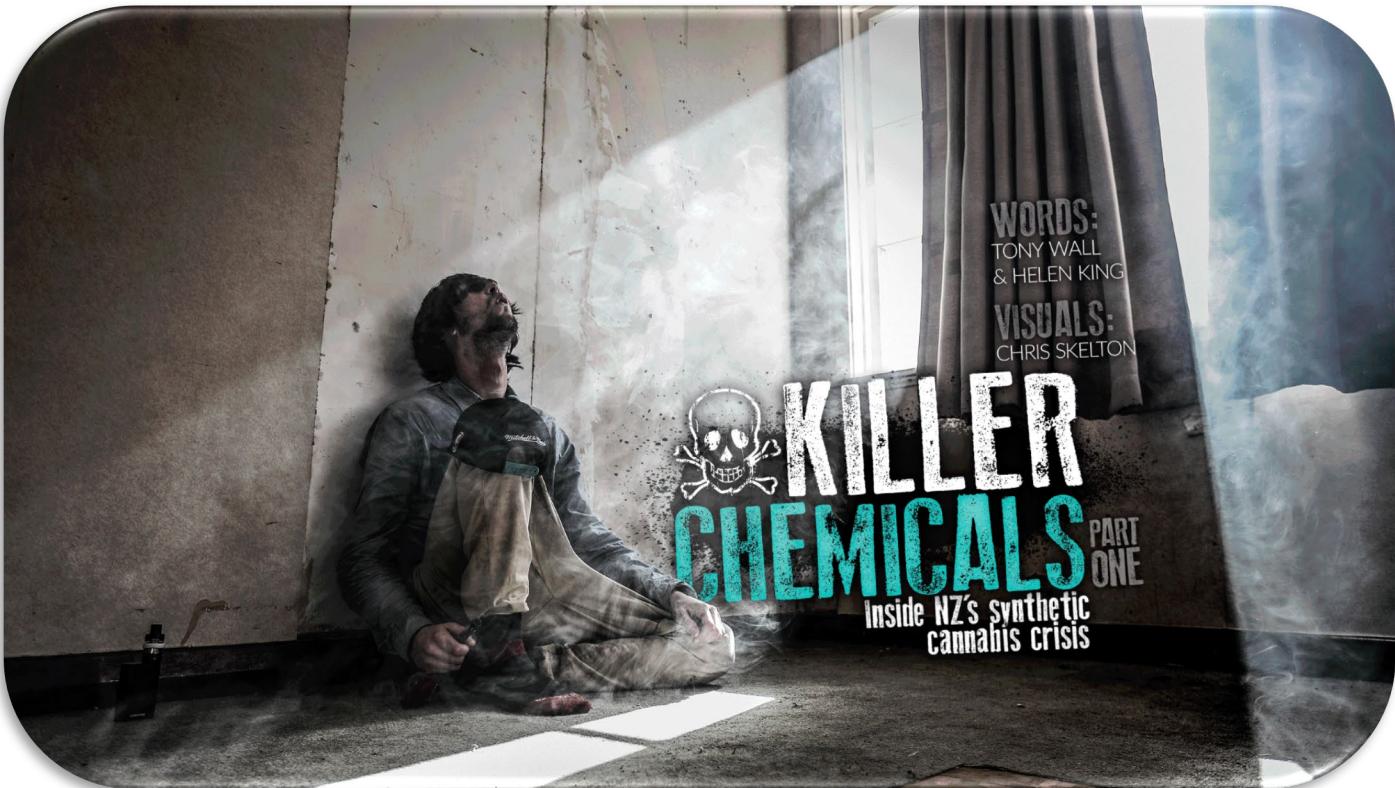
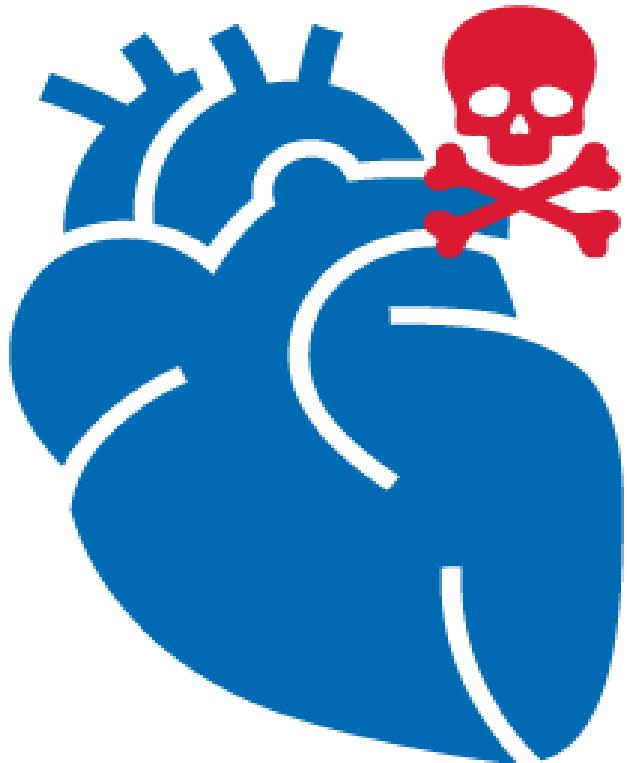
Baumann,
Acad Emerg Med, 2000

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 ISSN: 1524-4539











The Toxicology of Bath Salts: A Review of Synthetic Cathinones

Prosser,
J Med Toxicol, 2012

Table 2 User reported clinical effects of synthetic cathinones [17, 25, 28, 30, 62]

Cardiovascular	Palpitations, shortness of breath, chest pain
ENT	Dry mouth, epistaxis, nasal pain, “nose burns”, oropharyngeal pain, tinnitus
Gastrointestinal	Abdominal pain, anorexia, nausea, vomiting
Genitourinary	Anorgasmia, erectile dysfunction, increased libido
Musculoskeletal	Arthralgias, extremity changes—coldness, discoloration, numbness, tingling, muscular tension and cramping
Neurologic	Aggressiveness, bruxism, dizziness, headache, lightheadness, memory loss, tremor, seizures
Ophthalmologic	Blurred vision, mydriasis, nystagmus
Pulmonary	Shortness of breath
Psychological	Anger, anxiety, auditory and visual hallucinations, depression, dysphoria, empathy, euphoria, fatigue, formication, increased energy, increased and decreased concentration, loquaciousness, panic, paranoia, perceptual distortions, restlessness
Other	Body odor “mephedrone stink”, diaphoresis, fever, insomnia, nightmares, skin rash

Table 4 Medical provider (including emergency department and poison center data) reported effects associated with use of synthetic cathinones [1, 13, 30, 35, 38, 70–72]

Cardiovascular	Chest pain, hypertension, palpitations, myocarditis, tachycardia
ENT	Epistaxis, oral and pharyngeal effects, tongue disorder
Gastrointestinal	Abdominal pain, abnormal liver function tests, nausea, liver failure
Musculoskeletal	Elevated creatinine kinase, peripheral vasoconstriction, rhabdomyolysis
Neurologic	Agitation, aggression, altered mental status, collapse, confusion, dizziness, drowsiness, dystonia, headache, hyperreflexia, myoclonus, paraesthesia, seizures, tremor
Ophthalmologic	Abnormal vision, mydriasis
Pulmonary	Shortness of breath, tachypnea
Psychological	Anxiety, confusion, delusions, hallucinations, paranoia, psychosis
Renal	Abnormal renal function, acute renal failure
Other	Diaphoresis, fever, hyponatremia, rash

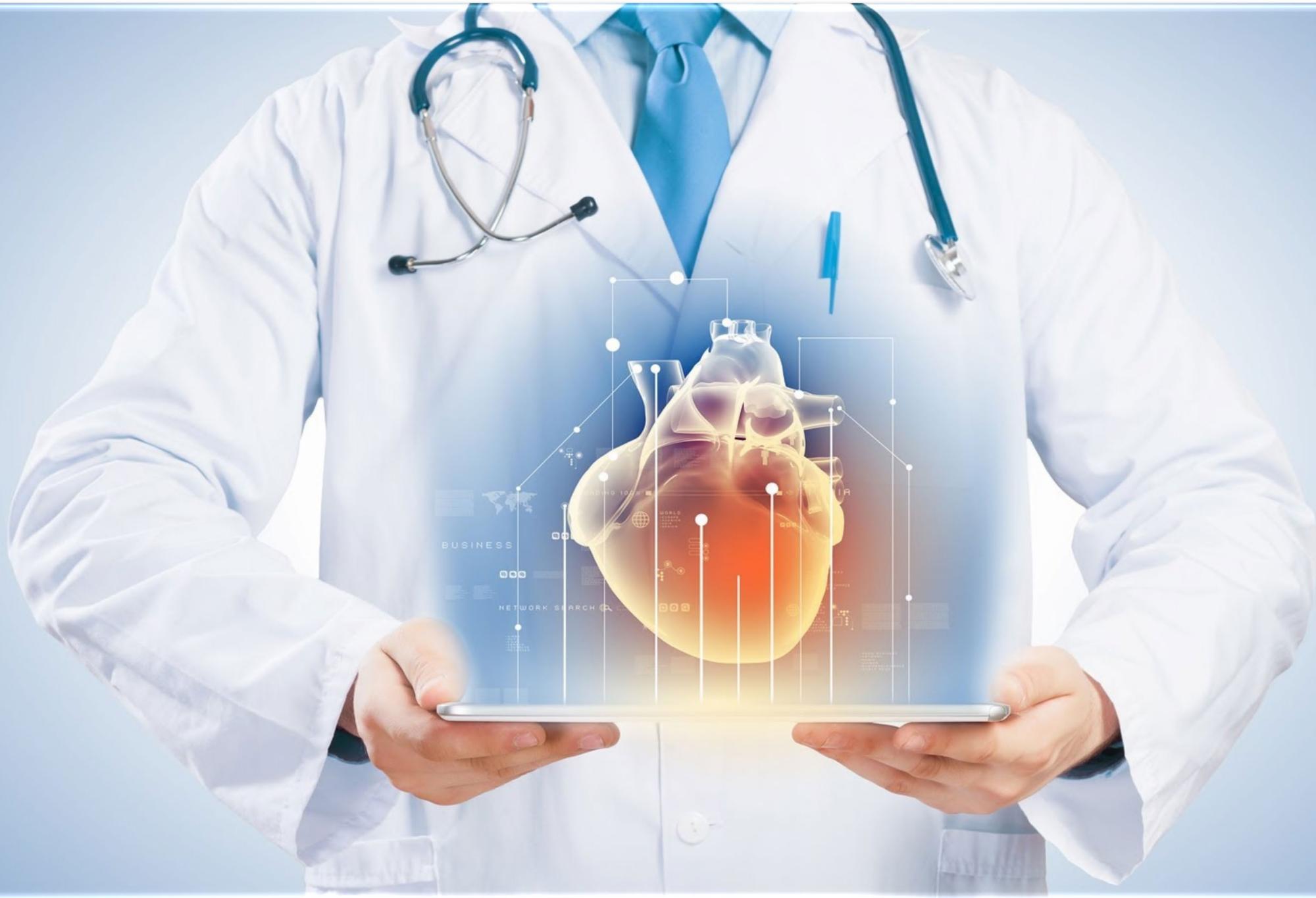
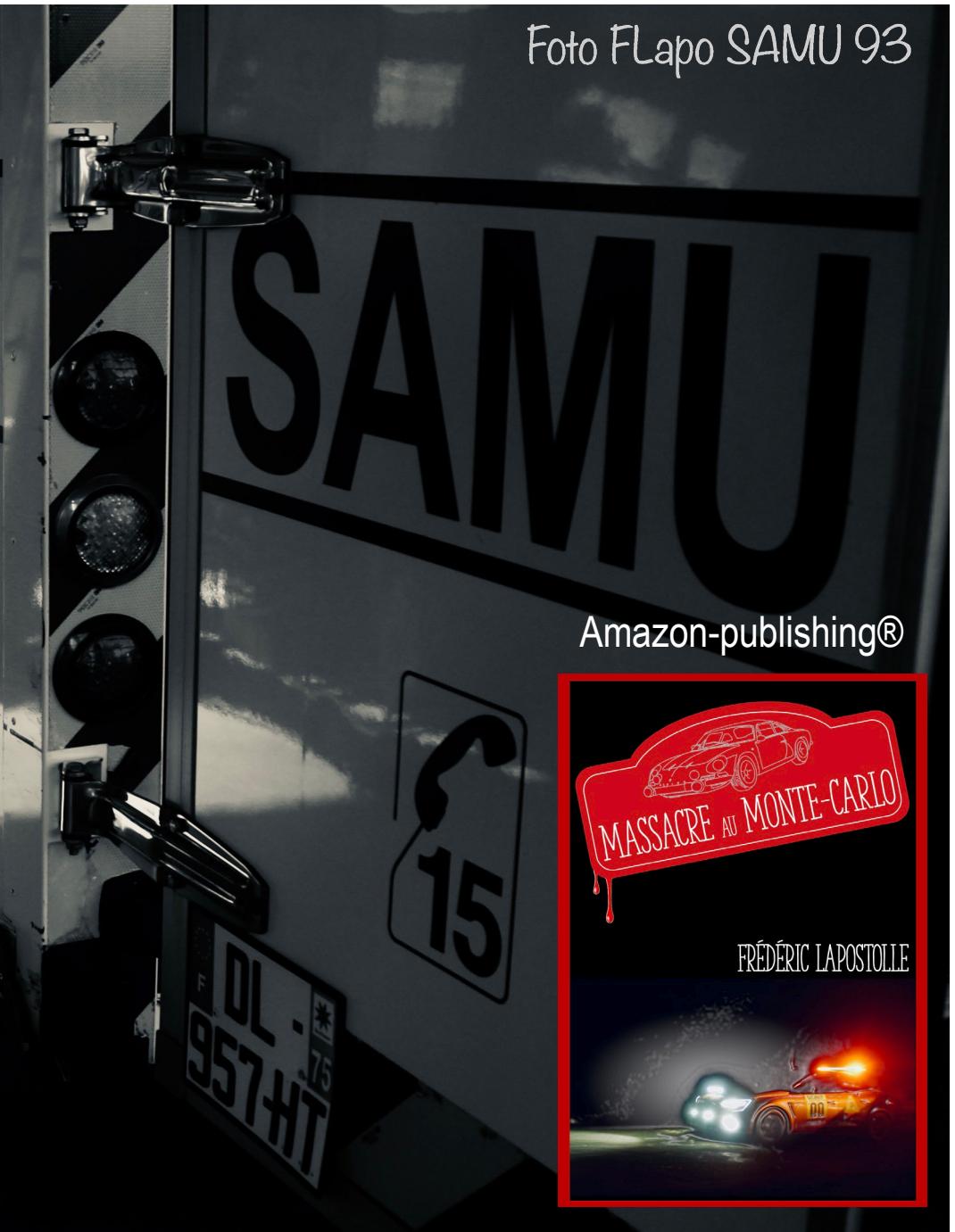
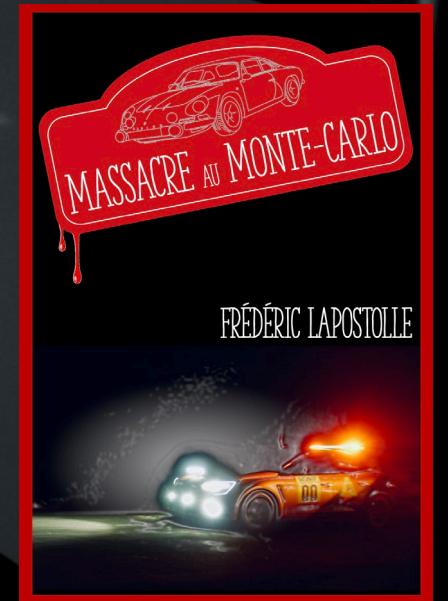


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