




Klinik für Radiologie

## Das Herz-CT als kardiovaskulärer Risikomarker – Stand der Evidenz

Marc Dewey  
Heisenberg Professor für Radiologie

TEAM DEWEY

### Interessenkonflikte

#### Drittmittel:

EU: EC-GA 603266 in HEALTH.2013.2.4.2-2 für die DISCHARGE trial  
 DFG: (DE 1361/14-1, DE 1361/18-1, BIOQIC GRK 2260/1, Radiomics DE 1361/19-1 [428222922] und 20-1 [428223139] in SPP 2177/1), GUIDE-IT (DE 1361/24-1) zu Data Sharing of Imaging Trials  
 Berlin University Alliance: GC\_SC\_PC 27

Berlin Institute of Health: Digital Health Accelerator

**Editor:** Cardiac CT (Springer Nature)

**Kurse:** Hands-on CT Kurse ([www.ct-kurs.de](http://www.ct-kurs.de))

**Institutional research agreements:** Siemens, General Electric, Philips, Canon.

**Patent:** fractal analysis of perfusion imaging (in US und Europa gemeinsam mit Florian Michallek, EPO 2022 EP3350773A1, und USPTO 2021 10,991,109)

**European Society of Radiology (ESR) Publications Chair (2022-2025)**

### Struktur

1. Patientinnenbeispiel
2. Warum die DISCHARGE Studie?
3. Ergebnisse von DISCHARGE
4. Implikationen für die CT
5. KI bei V.a. KHK

**7. arriba-SYMPOSIUM**  
19. April 2024

KARDIOVASKULÄRE PRÄVENTION:  
NEUE TECHNOLOGIEN, NEUE STRATEGIEN?



**Gemeinsamer Bundesausschuss**

Über den G-BA Themen Richtlinien Beschlüsse Bewertungsverfahren Studien

G > Presse > Pressemitteilungen und Meldungen > Neue ambulante Leistung: Bildgebendes Verfahren zum Abklären von koronarer Herzkrankheit

**Pressemitteilung | Methodenbewertung**

**Neue ambulante Leistung: Bildgebendes Verfahren zum Abklären von koronarer Herzkrankheit**

Berlin, 18. Januar 2024 – Soll in Arztpraxen der Verdacht auf eine chronische koronare Herzkrankheit abgeklärt werden, kann dafür bei gesetzlich Versicherten künftig die Computertomographie-Koronarangiographie (CCTA) eingesetzt werden. Die CCTA ist eine nicht-invasive bildgebende Methode, mit der die Herzkranzarterien dargestellt werden, um dort Verengungen oder Verschlüsse zu finden. Der Gemeinsame Bundesausschuss (G-BA) hat per Beschluss heute den Leistungskatalog der gesetzlichen Krankenversicherung auf Basis von aussagekräftigen Studien um die CCTA erweitert.

Dazu Dr. Monika Leigmann, unparteiisches Mitglied des G-BA und Vorsitzende des Untersuchungsmethodenbewertung: „Mit der heutigen Entscheidung sollte bei den meisten Patientinnen und Patienten mit Verdacht auf eine chronische koronare Herzkrankheit künftig eine CCTA zur Diagnose eingesetzt werden. Wir erwarten, dass damit die Klärfähigkeit diagnostischer Herzkatheterverfahren abnimmt. Bei vergleichbarer Krankheitslast wurden bisher in Deutschland entsprechende Untersuchungen fast doppelt so häufig wie in anderen europäischen Ländern durchgeführt. Trotz der Vielzahl an Herzkatheteruntersuchungen erreichen wir im Vergleich keine überdurchschnittlich guten Ergebnisse bei der kardiovaskulären Krankheitslast und Sterblichkeit; wichtig ist mir bei aller Kritik: Herzkatheter haben ihre medizinische Berechtigung, gerade auch in Notfallsituationen.“

**Pressemitteilungen und Meldungen**

Der G-BA in den Medien

Stellungnahmen

Pressefotos

**Ansprechpartnerinnen für die Presse:**

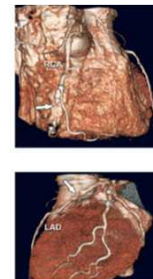
Ann Marini (Ltg.)  
Gudrun Köster  
Annette Steiger  
030 275938-811  
[pressenwg@bundes-ct.de](mailto:pressenwg@bundes-ct.de)

**G-BA-Infodienst**

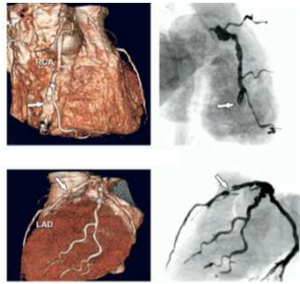
Mit dem kostenlosen G-BA-Infodienst

Patientinnenbeispiel

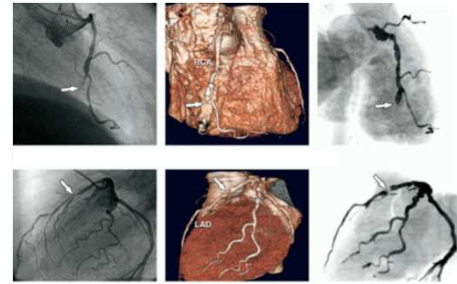
### 48-jährige Patientin mit Diabetes Typ II



## 48-jährige Patientin mit Diabetes Typ II



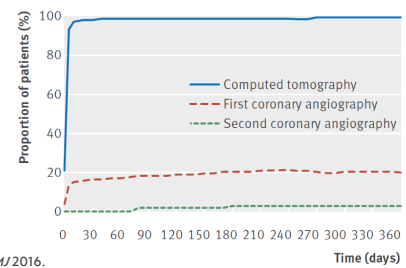
## 48-jährige Patientin mit Diabetes Typ II



Warum die DISCHARGE Studie?

## CAD-Man Trial

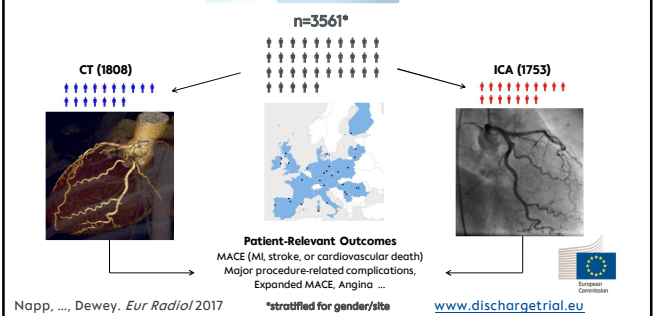
Nur 20% der Patient\*innen benötigen eine Koro nach CT

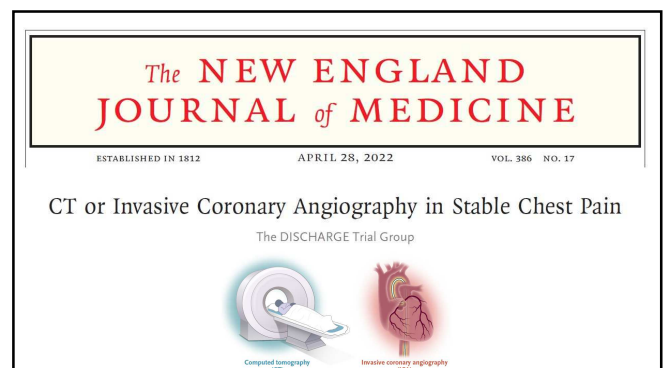
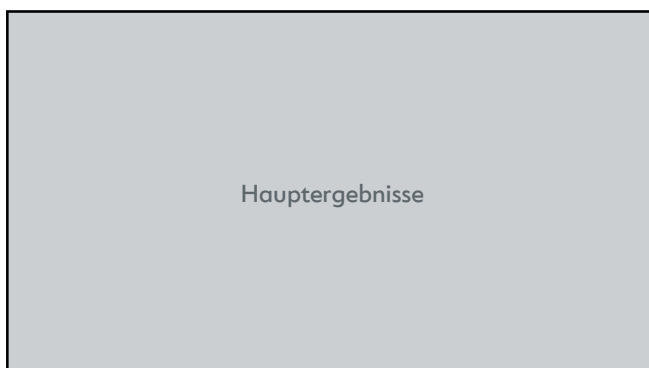
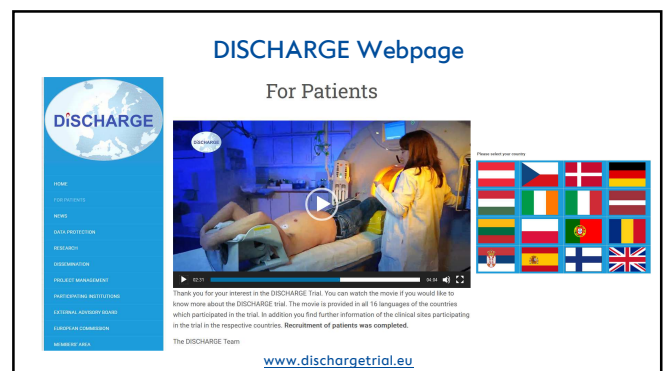
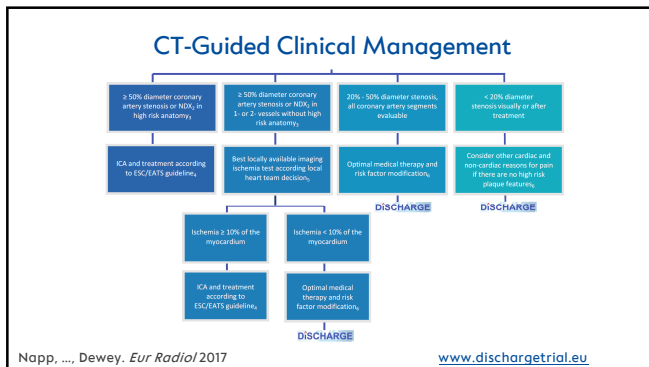


Dewey et al. *BMJ* 2016.

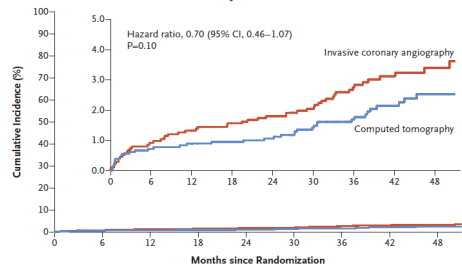
DISCHARGE Studie

## DISCHARGE Studie





### Primärer Endpunkt: MACE\*



\* MI, stroke, or cardiovascular death

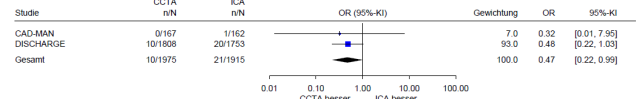
[www.discharge-trial.eu](http://www.discharge-trial.eu)

The DISCHARGE Trial Group *NEJM* 2022

### IQWiG Bericht: Schlaganfall

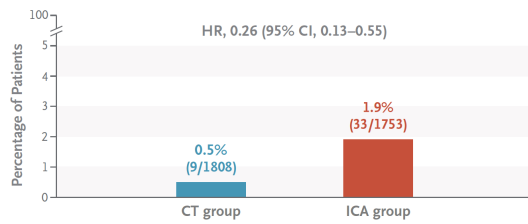
CCTA vs. ICA - langfristig  
Schlaganfall

Modell mit festem Effekt - Mantel-Haenszel



The DISCHARGE Trial Group *NEJM* 2022 & Dewey et al. *BMJ* 2016

### Komplikationen



The DISCHARGE Trial Group *NEJM* 2022

[www.discharge-trial.eu](http://www.discharge-trial.eu)

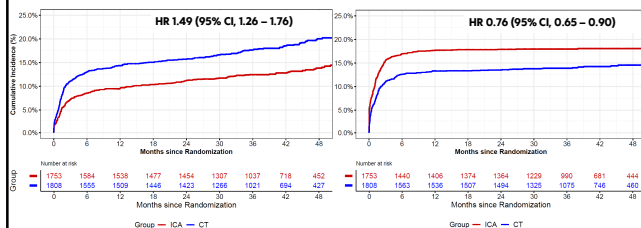
### PCI-Bezogene Komplikationen

	CT Group	ICA Group
At least one ICA with PCI	231	269
Nonfatal myocardial infarction – no./total no. (%)	1/231 (0.4%)	9/269 (3.3%)
Cardiac arrhythmia (ventricular tachycardia, ventricular fibrillation) – no./total no. (%)	0	2/269 (0.7%)
Further complications prolonging hospitalization by at least 24 h	3/231 (1.3%)	2/269 (0.7%)
Cardiac arrhythmia (other than ventricular tachycardia, ventricular fibrillation)	2/231 (0.9%)	0
Closure or injury of vessels	1/231 (0.4%)	0
Hematoma at the puncture site	0	1/269 (0.4%)
Angina without infarction	0	1/269 (0.4%)
Dissection (coronary, aorta) – no./total no. (%)	2/231 (0.9%)	1/269 (0.4%)
Cardiac arrest – no./total no. (%)	0	1/269 (0.4%)
Total – no./total no. (%)	6/231 (2.6%)	15/269 (5.6%)

The DISCHARGE Trial Group *NEJM* 2022

[www.discharge-trial.eu](http://www.discharge-trial.eu)

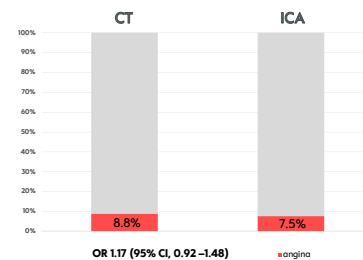
### Funktionelle Tests & Revaskularisation



The DISCHARGE Trial Group *NEJM* 2022

[www.discharge-trial.eu](http://www.discharge-trial.eu)

### Angina in den letzten 4 Wochen zum Follow-up



The DISCHARGE Trial Group *NEJM* 2022

[www.discharge-trial.eu](http://www.discharge-trial.eu)

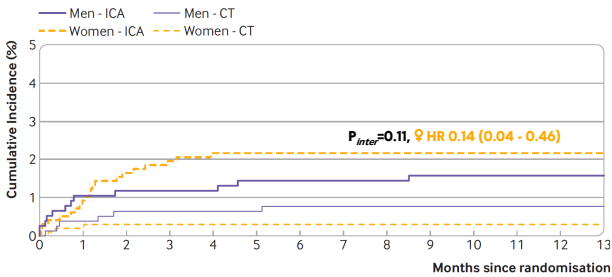
Gender

Research **thebmj**

Comparative effectiveness of initial computed tomography and invasive coronary angiography in women and men with stable chest pain and suspected coronary artery disease: multicentre randomised trial

<https://www.bmj.com/content/379/bmj-2022-071133>

Komplikationen

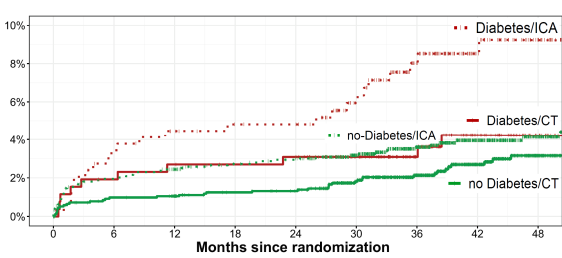


The DISCHARGE Trial Group *BMJ* 2022

[www.discharge-trial.eu](http://www.discharge-trial.eu)

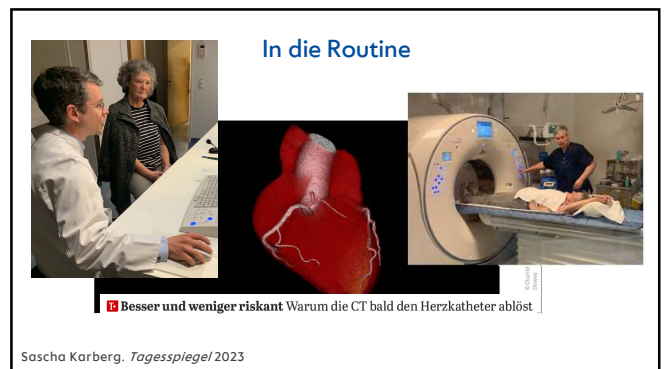
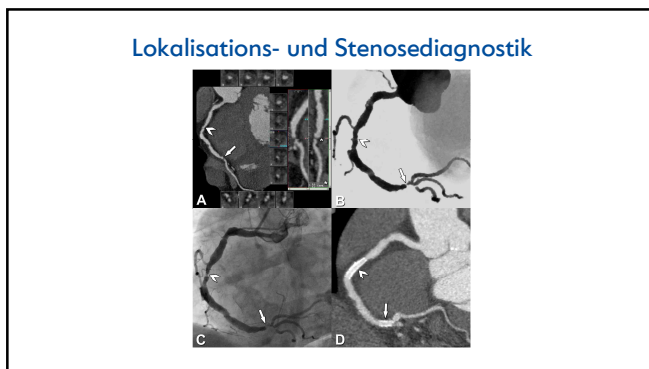
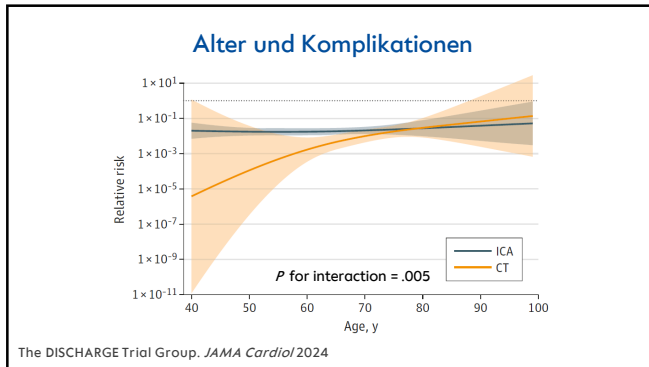
Diabetes

Erweiterte MACE



The DISCHARGE Trial Group *Diabetes Care* 2023

Alter



### Internationale QCI Konsensempfehlung

#### Clinical quantitative coronary artery stenosis and coronary atherosclerosis imaging: a Consensus Statement from the Quantitative Cardiovascular Imaging Study Group

Aldo J. Vázquez Mézquita<sup>1,28</sup>, Federico Biavati<sup>28</sup>, Volkmar Falk<sup>2,3,4</sup>, Hatem Alkadi<sup>5</sup>, Reza Hajhosseiny<sup>6,7</sup>, Pal Maurovich-Horvat<sup>8</sup>, Robert Manka<sup>9,10</sup>, Sebastian Kozierke<sup>11</sup>, Matthias Stuber<sup>12</sup>, Thorsten Derlin<sup>13</sup>, Keith M. Channon<sup>14</sup>, Ivana Išgum<sup>15</sup>, Adriaan Coenen<sup>16</sup>, Bernhard Foellmer<sup>17</sup>, Damini Dey<sup>18</sup>, Rick H. J. A. Vollebregt<sup>19</sup>, Felix G. Meinel<sup>10</sup>, Marc R. Dweck<sup>20</sup>, Jan J. Piek<sup>21</sup>, Tim van de Hoek<sup>22</sup>, Ulf Landmesser<sup>23</sup>, Giulio Quaglini<sup>24</sup>, Andreas A. Giannopoulos<sup>24</sup>, René M. Botnar<sup>25</sup>, Ramzi Khamis<sup>26</sup>, Michelle C. Williams<sup>26</sup>, David E. Newby<sup>25,29</sup> & Marc Dewey<sup>1,3,26,27,29</sup>

QCI Study Group. *Nature Reviews Cardiology* 2023

### Internationale QCI Konsensempfehlung

nature reviews  
cardiology

October 2023

	CT	MR	PET	FFR-CT	ICA	IVUS	OCT
Stable chest pain with suspected CAD and intermediate pre-test probability (10-40%)	9	6	4	5	5	3	3
Stable chest pain with suspected CAD and high pre-test probability (>60%)	7	6	4	4	8	6	6
After an inconclusive or non-diagnostic functional test	8	5	4	4	7	5	5
ACS without ST-segment elevation	7	4	3	3	8	6	6
ACS with ST-segment elevation	3	2	1	1	9	7	7
Asymptomatic patients with a high risk of CVD (>10% risk of cardiovascular events in the subsequent 10 years)	7	4	2	2	2	2	2
New symptoms in patients with prior coronary stenting	7	5	4	5	8	6	6
New symptoms after CABG surgery	8	6	4	4	7	5	5

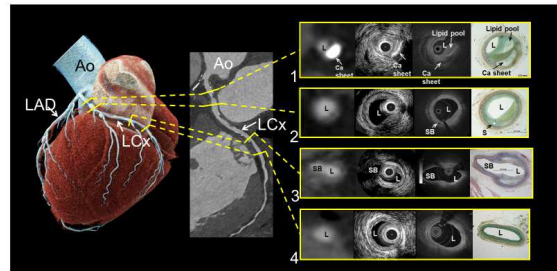
Appropriate Uncertain Inappropriate

QCI Study Group. *Nature Reviews Cardiology* 2023

DFG Deutsche Forschungsgemeinschaft

## KI bei Verdacht auf KHK

## CT zur Plaquequantifizierung



QCI Study Group. *Nature Reviews Cardiology* 2023

## Roadmap: KI für vulnerable Plaques

nature reviews  
cardiology

January 2024



## Roadmap on the use of artificial intelligence for imaging of vulnerable atherosclerotic plaque in coronary arteries

Bernhard Föllmer<sup>1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450,451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650,651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700,701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800,801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850,851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900,901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950,951,952,953,954,955,956,957,958,959,960,961,962,963,964,965,966,967,968,969,970,971,972,973,974,975,976,977,978,979,980,981,982,983,984,985,986,987,988,989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153,1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206,1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217,1218,1219,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### 3. QCI Konsensus-Meeting

- 1 Tag mit 32 Vortragenden aus 8 Ländern
- 6.9.2024



[www.marcdewey.de/qci](http://www.marcdewey.de/qci)

DFG Deutsche  
Forschungsgemeinschaft

### Zusammenfassung

- Die CT kann die Therapiewahl (OMT/PCI/CABG) zuverlässig unterstützen
- DISCHARGE belegt weitere Vorteile der CT-Koronarangiographie
- Vorteile bestehen für Frauen und für Männer
- CT könnte breiter angewendet werden – dabei wird KI helfen

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DISCHARGE



Dank an die Förderer:



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