

# MED RAG System - Chat Export

Generated: 2025-11-25 07:35:38

## Query 1:

What are COVID-19 symptoms?

*Time: 2025-11-24 17:08:38*

## Answer:

Based on medical literature review: The COVID-19 pandemic has impacted the practicing gastroenterologist in several ways. Although majority of COVID-19 patients present with respiratory symptoms, gastrointestinal symptoms are also seen. [PMID: 33074995] The relationship between COVID-19 and diabetes mellitus is complicated and bidirectional. On the one hand, diabetes mellitus is considered one of the most important risk factors for a severe course of COVID-19. [PMID: 34220706] The 2019 coronavirus disease (COVID-19), an airborne infection caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), has resulted in a global pandemic. SARS-CoV-2 relies on the angiotensin-converting enzyme 2 receptor for cellular entry and the abundance of this receptor in the gastrointestinal (GI) tract may help explain the GI manifestations, including dysgeusia, nausea, vomiting, diarrhea, and abdominal pain, present in over 40% of infected patients. [PMID: 34420001] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 33074995

**Title:** Coronavirus disease-2019: implications for the gastroenterologist.

**Specialty:** gastroenterology

2. **PMID:** 34220706

**Title:** COVID-19 and Diabetes: Understanding the Interrelationship and Risks for a Severe Course.

**Specialty:** diabetes

3. **PMID:** 34420001

**Title:** The Impact of COVID-19 in Gastroenterology and Hepatology.

**Specialty:** gastroenterology

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## Query 2:

What causes heart disease?

*Time: 2025-11-24 17:08:54*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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## Query 3:

What causes heart disease?

*Time: 2025-11-24 17:17:28*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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## Query 4:

what is oncology?

*Time: 2025-11-24 18:07:01*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 34898580

**Title:** Surgical Oncology: Multidisciplinarity to Improve Cancer Treatment and Outcomes.

**Specialty:** oncology

2. **PMID:** 32078620

**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 5:

what is oncology?

*Time: 2025-11-24 18:07:56*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 34898580

**Title:** Surgical Oncology: Multidisciplinarity to Improve Cancer Treatment and Outcomes.

**Specialty:** oncology

2. **PMID:** 32078620

**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 6:

What causes heart disease?

*Time: 2025-11-24 18:20:25*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of

patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

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1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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## Query 7:

What causes heart disease?

*Time: 2025-11-24 18:20:43*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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## Query 8:

What causes heart disease?

*Time: 2025-11-24 19:10:21*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

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1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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## Query 9:

How is stroke treated?

*Time: 2025-11-24 19:13:40*

## Answer:

Based on medical literature review: To update the recommendations of the Spanish Society of Neurology on primary and secondary stroke prevention in patients with arterial hypertension. We proposed several questions to identify practical issues for the management of blood pressure (BP) in stroke prevention, analysing the objectives of blood pressure control, which drugs are most appropriate in primary prevention, when antihypertensive treatment should be started after a stroke, what levels we should aim to achieve, and which drugs are most appropriate in secondary stroke prevention. [PMID: 34238528] To update the Spanish Society of Neurology's guidelines for stroke prevention in patients with type 2 diabetes or prediabetes, analysing the available evidence on the effect of metabolic control and the potential benefit of antidiabetic drugs with known vascular benefits in addition to conventional antidiabetic treatments in stroke prevention. PICO-type questions (Patient, Intervention, Comparison, Outcome) were developed to identify practical issues in the management of stroke patients and to establish specific recommendations for each of them. [PMID: 32981775] The article summarizes the training pathways and vocational opportunities within the field of vascular neurology. It highlights the groundbreaking clinical trials that transformed acute stroke care and the resultant increased demand for readily available vascular neurology expertise. [PMID: 38937039] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 34238528

**Title:** Stroke prevention in patients with arterial hypertension: Recommendations of the Spanish Society of Neurology's Stroke Study Group.

**Specialty:** neurology

2. **PMID:** 32981775

**Title:** Stroke prevention in patients with type 2 diabetes or prediabetes. Recommendations from the Cerebrovascular Diseases Study Group, Spanish Society of Neurology.

**Specialty:** neurology

3. **PMID:** 38937039

**Title:** The Role of the Vascular Neurologist in Optimizing Stroke Care.

**Specialty:** neurology

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## Query 10:

How is stroke treated?

*Time: 2025-11-24 19:18:01*

## Answer:

Based on medical literature review: To update the recommendations of the Spanish Society of Neurology on primary and secondary stroke prevention in patients with arterial hypertension. We proposed several questions to identify practical issues for the management of blood pressure (BP) in stroke prevention, analysing the objectives of blood pressure control, which drugs are most appropriate in primary prevention, when antihypertensive treatment should be started after a stroke, what levels we should aim to achieve, and which drugs are most appropriate in secondary stroke prevention. [PMID: 34238528] To update the Spanish Society of Neurology's guidelines for stroke prevention in patients with type 2 diabetes or prediabetes, analysing the available evidence on the effect of metabolic control and the potential benefit of antidiabetic drugs with known vascular benefits in addition to conventional antidiabetic treatments in stroke prevention. PICO-type questions (Patient, Intervention, Comparison, Outcome) were developed to identify practical issues in the management of stroke patients and to establish specific recommendations for each of them. [PMID: 32981775] The article summarizes the training pathways and vocational opportunities within the field of vascular neurology. It highlights the groundbreaking clinical trials that transformed acute stroke care and the resultant increased demand for readily available vascular neurology expertise. [PMID: 38937039] This summary is based on 3 research papers. See source documents for complete details.

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1. **PMID:** 34238528

**Title:** Stroke prevention in patients with arterial hypertension: Recommendations of the Spanish Society of Neurology's Stroke Study Group.

**Specialty:** neurology

2. **PMID:** 32981775

**Title:** Stroke prevention in patients with type 2 diabetes or prediabetes. Recommendations from the Cerebrovascular Diseases Study Group, Spanish Society of Neurology.

**Specialty:** neurology

3. **PMID:** 38937039

**Title:** The Role of the Vascular Neurologist in Optimizing Stroke Care.

**Specialty:** neurology

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## Query 11:

What causes heart disease?

*Time: 2025-11-24 21:16:33*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has



different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

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1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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## Query 12:

How is stroke treated?

*Time: 2025-11-24 23:27:33*

## Answer:

Based on medical literature review: To update the recommendations of the Spanish Society of Neurology on primary and secondary stroke prevention in patients with arterial hypertension. We proposed several questions to identify practical issues for the management of blood pressure (BP) in stroke prevention, analysing the objectives of blood pressure control, which drugs are most appropriate in primary prevention, when antihypertensive treatment should be started after a stroke, what levels we should aim to achieve, and which drugs are most appropriate in secondary stroke prevention. [PMID: 34238528] To update the Spanish Society of Neurology's guidelines for stroke prevention in patients with type 2 diabetes or prediabetes, analysing the available evidence on the effect of metabolic control and the potential benefit of antidiabetic drugs with known vascular benefits in addition to conventional antidiabetic treatments in stroke prevention. PICO-type questions (Patient, Intervention, Comparison, Outcome) were developed to identify practical issues in the management of stroke patients and to establish specific recommendations for each of them. [PMID: 32981775] The article summarizes the training pathways and vocational opportunities within the field of vascular neurology. It highlights the groundbreaking clinical trials that transformed acute stroke care and the resultant increased demand for readily available vascular neurology expertise. [PMID: 38937039] This summary is based on 3 research papers. See source documents for complete details.

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1. **PMID:** 34238528

**Title:** Stroke prevention in patients with arterial hypertension: Recommendations of the Spanish Society of Neurology's Stroke Study Group.

**Specialty:** neurology

2. **PMID:** 32981775

**Title:** Stroke prevention in patients with type 2 diabetes or prediabetes. Recommendations from the Cerebrovascular Diseases Study Group, Spanish Society of Neurology.

**Specialty:** neurology

3. **PMID:** 38937039

**Title:** The Role of the Vascular Neurologist in Optimizing Stroke Care.

**Specialty:** neurology

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## Query 13:

What causes heart disease?

*Time: 2025-11-25 04:51:23*

## Answer:

Based on medical literature review: Cardiovascular diseases (CVD) represent the leading cause of death in the world despite innovations in therapies and advances in the general management of patients [...]. [PMID: 36291738] Type 2 diabetes mellitus (T2DM) has emerged as a pandemic. It has different complications, both microvascular and macrovascular. [PMID: 30961498] In cardiomyocytes, high molecular ATP-dependent HSP70 and HSP90 play an important role in protecting the myocardium from abnormal proteins that appear, in particular, due to activation of oxidative stress. Molecular chaperone HSP60 is of particular importance for cardiomyocytes as it is responsible for assembly of mitochondrial matrix proteins. [PMID: 33219889] This summary is based on 3 research papers. See source documents for complete details.

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1. **PMID:** 36291738

**Title:** Advances in Molecular Biomarkers in Cardiology.

**Specialty:** cardiology

2. **PMID:** 30961498

**Title:** Macrovascular Complications of Type 2 Diabetes Mellitus.

**Specialty:** diabetes

3. **PMID:** 33219889

**Title:** Heat Shock Protein HSP60 in Left Ventricular Cardiomyocytes of Hypertensive Rats with and without Insulin-Dependent Diabetes Mellitus.

**Specialty:** diabetes

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## Query 14:

what is oncology?

*Time: 2025-11-25 05:06:34*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 34898580

**Title:** Surgical Oncology: Multidisciplinarity to Improve Cancer Treatment and Outcomes.

**Specialty:** oncology

2. **PMID:** 32078620

**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 15:

what is oncology?

*Time: 2025-11-25 05:09:19*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

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**Title:** Surgical Oncology: Multidisciplinarity to Improve Cancer Treatment and Outcomes.

**Specialty:** oncology

2. **PMID:** 32078620

**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 16:

what is oncology?

*Time: 2025-11-25 05:15:16*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

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**Title:** Surgical Oncology: Multidisciplinarity to Improve Cancer Treatment and Outcomes.

**Specialty:** oncology

2. **PMID:** 32078620

**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 17:

what is oncology?

*Time: 2025-11-25 05:19:57*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

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1. **PMID:** 34898580

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**Specialty:** oncology

2. **PMID:** 32078620

**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 18:

what is oncology?

*Time: 2025-11-25 05:58:41*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

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**Specialty:** oncology

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**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 19:

what is cardiology?

*Time: 2025-11-25 06:00:43*

## Answer:

Based on medical literature review: Cardio-oncology is a unique subspecialty within oncology nursing that focuses on the assessment, identification, and management of cardiotoxicity induced or exacerbated by cancer treatment. Nurses are pivotal to the delivery of evidence-based assessment of and care for individuals who have preexisting cardiac conditions, as well as those for whom cardiac complications are related to the known and emerging toxicities of cancer treatment.. [PMID: 33480880]

Heart University [<https://www.heartuniversity.org/>] is a free educational website providing structured training curricula with knowledge-based testing and access to webinars and conference recordings for practicing and in-training providers of paediatric and congenital cardiac care. To date, there are over 15,000 registered website users from over 140 countries on Heart University, with over 2,000 training modules and/or recorded educational videos. [PMID: 38604745] Despite a perceived increase in attention to gender differences in medicine, a comprehensive assessment of gender equality research, particularly in cardiology, remains underexplored. This observational retrospective study, focusing on documents related to "Gender Equality" according to the Sustainable Development Goals, reveals cardiology as a significant area for gender equality research, albeit with a decline in publications post-2018. [PMID: 38705638] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 33480880

**Title:** Cardio-Oncology: A Continually Evolving Subspecialty in Oncology Nursing.

**Specialty:** oncology

2. **PMID:** 38604745

**Title:** Cardiology across continents: an interactive, case-based learning series.

**Specialty:** cardiology

3. **PMID:** 38705638

**Title:** Gender equality in medical research: A cardiology-informed examination.

**Specialty:** cardiology

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## Query 20:

what is oncology?

*Time: 2025-11-25 06:18:53*

## Answer:

Based on medical literature review: Surgical oncology is commonly regarded as the field of surgery dealing with cancer [...]. [PMID: 34898580] The oncology nursing specialty seeks to reduce the risks, incidence, and burden of cancer by encouraging healthy lifestyles, promoting early detection, improving the management of cancer symptoms and side effects throughout the disease trajectory, and leading the coordination of complex care needs.. [PMID: 32078620] Despite the success of various cancer therapies on patient survival, these treatments can have negative side effects, particularly severe damage to the respiratory system. Given the rise in respiratory-associated illnesses in response to cancer treatment, we urge the field to consider a new discipline referred to as 'oncology-respirology' (or onco-respirology).. [PMID: 39068109] This summary is based on 3 research papers. See source documents for complete details.

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**Specialty:** oncology

2. **PMID:** 32078620

**Title:** The Oncology Nursing Specialty.

**Specialty:** oncology

3. **PMID:** 39068109

**Title:** Oncology-respirology: a discipline in dire need.

**Specialty:** oncology

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## Query 21:

what is pulmonology?

*Time: 2025-11-25 06:23:32*

## Answer:

Based on medical literature review: Interventional pulmonology has undergone amazing ambitious changes and innovations over the past decades, which have to find their place in a wise multidisciplinary management of respiratory diseases <https://bit.ly/3dD237L>. [PMID: 32554758] Interventional pulmonology is a dynamic and evolving field in respiratory medicine. Advances have improved the ability to diagnose and manage diseases of the airways. [PMID: 32593365] Interventional pulmonology is a rapidly evolving subspecialty of pulmonary medicine that offers advanced consultative and procedural services to patients with airway diseases, pleural diseases, as well as in the diagnosis and management of patients with thoracic malignancy. The institution of lung cancer screening modalities as well as the search of additional minimally invasive diagnostic and treatment modalities for lung cancer and other chronic lung diseases has led to an increased focus on the field of interventional pulmonology. [PMID: 33590989] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 32554758

**Title:** Interventional pulmonology: between ambition and wisdom.

**Specialty:** pulmonology

2. **PMID:** 32593365

**Title:** Interventional Pulmonology: A Brave New World.

**Specialty:** pulmonology

3. **PMID:** 33590989

**Title:** Interventional Pulmonology: Diagnostic and Therapeutic Advances in Bronchoscopy.

**Specialty:** pulmonology



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## Query 22:

what is Infectious Diseases?

*Time: 2025-11-25 06:54:02*

## Answer:

Based on medical literature review: Infectious diseases, which are caused by pathogens such as bacteria, viruses, fungi, and parasites, pose a serious threat to humans, animals, and plants [...]. [PMID: 36675263] Emerging infectious diseases (EIDs) are defined as diseases that are newly identified, newly introduced, or newly evolved; or diseases that have recently and rapidly changed in incidence or expanded geographic, host, or vector range agents; or previous infections that acquire new virulence factors; or infections that spread to unaffected regions [...]. [PMID: 35897451] Zoonoses are diseases and infections naturally transmitted between humans and vertebrate animals. Over the years, zoonoses have become increasingly significant threats to global health. [PMID: 36790888] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 36675263

**Title:** Genomics: Infectious Disease and Host-Pathogen Interaction.

**Specialty:** infectious\_diseases

2. **PMID:** 35897451

**Title:** Emerging Infectious Diseases and One Health: Implication for Public Health.

**Specialty:** infectious\_diseases

3. **PMID:** 36790888

**Title:** Domestic Animals as Potential Reservoirs of Zoonotic Viral Diseases.

**Specialty:** infectious\_diseases

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## Query 23:

What type and stage of cancer do I have, and what does that mean for my prognosis?

*Time: 2025-11-25 06:55:28*

## Answer:

Based on medical literature review: Renal cell carcinoma (RCC) is a malignant tumor and the third most common urinary disease. It was estimated that RCC affected over 350,000 individuals in 2013, and

there are nearly 140,000 deaths annually due to this disease. [PMID: 32529862] Non-melanoma skin cancers are the most prevalent form of cancer, with cutaneous squamous cell carcinoma (csc) being the 2nd most common type. Patients presenting with high-risk lesions associated with locally advanced or metastatic csc face high rates of recurrence and mortality. [PMID: 32905333] Gastric adenosquamous carcinoma (gasc) is a rare entity with distinctive characteristics that are not fully understood. In the present study, we evaluated the characteristics of this rare disease. [PMID: 33380867] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 32529862

**Title:** Research progress on advanced renal cell carcinoma.

**Specialty:** nephrology

2. **PMID:** 32905333

**Title:** Multidisciplinary management of locally advanced and metastatic cutaneous squamous cell carcinoma.

**Specialty:** oncology

3. **PMID:** 33380867

**Title:** Clinicopathologic characteristics, survival, and treatments for gastric adenosquamous carcinoma: a population-based study.

**Specialty:** oncology

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## Query 24:

A 60-year-old with a history of hypertension and dyslipidemia has a blood pressure of \172/94\ mmHg. Which class of antihypertensive medication is a particularly good choice given the patient's age and need for add-on therapy?

*Time: 2025-11-25 07:28:50*

## Answer:

Based on medical literature review: The prevalence of diabetes mellitus continues to increase worldwide, and it is a well-established cardiovascular risk factor. Hypertension is also an important cardiovascular risk factor to be controlled and is common among patients with diabetes mellitus. [PMID: 36193727] To update the recommendations of the Spanish Society of Neurology on primary and secondary stroke prevention in patients with arterial hypertension. We proposed several questions to identify practical issues for the management of blood pressure (BP) in stroke prevention, analysing the objectives of blood pressure control, which drugs are most appropriate in primary prevention, when antihypertensive treatment should be started after a stroke, what levels we should aim to achieve, and which drugs are most appropriate in secondary stroke prevention. [PMID: 34238528] Herein, we provide a review of the recent literature on the epidemiological and pathophysiological relationship between hypertension (HTN) and diabetes mellitus, along with prognostic implications and current treatment concepts. Diabetes mellitus affects ~10% of US adults. [PMID: 32371623] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 36193727

**Title:** Blood Pressure Target in Type 2 Diabetes Mellitus.

**Specialty:** diabetes

2. **PMID:** 34238528

**Title:** Stroke prevention in patients with arterial hypertension: Recommendations of the Spanish Society of Neurology's Stroke Study Group.

**Specialty:** neurology

3. **PMID:** 32371623

**Title:** Hypertension and diabetes mellitus: highlights of a complex relationship.

**Specialty:** diabetes

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## Query 25:

what is pulmonology?

*Time: 2025-11-25 07:31:05*

## Answer:

Based on medical literature review: Interventional pulmonology has undergone amazing ambitious changes and innovations over the past decades, which have to find their place in a wise multidisciplinary management of respiratory diseases <https://bit.ly/3dD237L>. [PMID: 32554758] Interventional pulmonology is a dynamic and evolving field in respiratory medicine. Advances have improved the ability to diagnose and manage diseases of the airways. [PMID: 32593365] Interventional pulmonology is a rapidly evolving subspecialty of pulmonary medicine that offers advanced consultative and procedural services to patients with airway diseases, pleural diseases, as well as in the diagnosis and management of patients with thoracic malignancy. The institution of lung cancer screening modalities as well as the search of additional minimally invasive diagnostic and treatment modalities for lung cancer and other chronic lung diseases has led to an increased focus on the field of interventional pulmonology. [PMID: 33590989] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 32554758

**Title:** Interventional pulmonology: between ambition and wisdom.

**Specialty:** pulmonology

2. **PMID:** 32593365

**Title:** Interventional Pulmonology: A Brave New World.

**Specialty:** pulmonology

3. **PMID:** 33590989

**Title:** Interventional Pulmonology: Diagnostic and Therapeutic Advances in Bronchoscopy.

**Specialty:** pulmonology

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## Query 26:

What is the primary consideration when administering thrombolytic therapy to a patient with an acute MI, and how does aspirin play a role in this management?

*Time: 2025-11-25 07:32:02*

## Answer:

Based on medical literature review: A few decades ago, the understanding of the pathophysiological processes involved in the coronary artery thrombus formation has placed anticoagulant and antiplatelet agents at the core of the management of acute coronary syndrome (ACS). Increasingly potent antithrombotic agents have since been evaluated, in various association, timing, or dosage, in numerous randomized controlled trials to interrupt the initial thrombus formation, prevent ischemic complications, and ultimately improve survival. [PMID: 33506483] Antithrombotic therapy represents the cornerstone of the pharmacological treatment in patients with acute coronary syndrome (ACS). The optimal combination and duration of antithrombotic therapy is still matter of debate requiring a critical assessment of patient comorbidities, clinical presentation, revascularization modality, and/or optimization of medical treatment. [PMID: 38170562] Cardiology and all its subspecialties continue to push the envelope in developing new treatment strategies for a wide variety of diseases. After screening more than 1300 articles, we highlight a selection of important cardiology articles published in 2023. [PMID: 38621242] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 33506483

**Title:** Antithrombotic Therapy in Acute Coronary Syndromes: Current Evidence and Ongoing Issues Regarding Early and Late Management.

**Specialty:** cardiology

2. **PMID:** 38170562

**Title:** Antithrombotic therapy in patients with acute coronary syndrome: similarities and differences between a European expert consensus document and the 2023 European Society of Cardiology guidelines.

**Specialty:** cardiology

3. **PMID:** 38621242

**Title:** Cardiology: What You May Have Missed in 2023.

**Specialty:** cardiology

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## Query 27:

What is the primary consideration when administering thrombolytic therapy to a patient with an acute MI, and how does aspirin play a role in this management?

*Time: 2025-11-25 07:34:07*

## Answer:

Based on medical literature review: A few decades ago, the understanding of the pathophysiological processes involved in the coronary artery thrombus formation has placed anticoagulant and antiplatelet agents at the core of the management of acute coronary syndrome (ACS). Increasingly potent antithrombotic agents have since been evaluated, in various association, timing, or dosage, in numerous randomized controlled trials to interrupt the initial thrombus formation, prevent ischemic complications, and ultimately improve survival. [PMID: 33506483] Antithrombotic therapy represents the cornerstone of the pharmacological treatment in patients with acute coronary syndrome (ACS). The optimal combination and duration of antithrombotic therapy is still matter of debate requiring a critical assessment of patient comorbidities, clinical presentation, revascularization modality, and/or optimization of medical treatment. [PMID: 38170562] Cardiology and all its subspecialties continue to push the envelope in developing new treatment strategies for a wide variety of diseases. After screening more than 1300 articles, we highlight a selection of important cardiology articles published in 2023. [PMID: 38621242] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 33506483

**Title:** Antithrombotic Therapy in Acute Coronary Syndromes: Current Evidence and Ongoing Issues Regarding Early and Late Management.

**Specialty:** cardiology

2. **PMID:** 38170562

**Title:** Antithrombotic therapy in patients with acute coronary syndrome: similarities and differences between a European expert consensus document and the 2023 European Society of Cardiology guidelines.

**Specialty:** cardiology

3. **PMID:** 38621242

**Title:** Cardiology: What You May Have Missed in 2023.

**Specialty:** cardiology

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## Query 28:

A 60-year-old with a history of hypertension and dyslipidemia has a blood pressure of \172/94\ mmHg. Which class of antihypertensive medication is a particularly good choice given the patient's age and need for add-on therapy?

*Time: 2025-11-25 07:34:14*

## Answer:

Based on medical literature review: The prevalence of diabetes mellitus continues to increase worldwide, and it is a well-established cardiovascular risk factor. Hypertension is also an important cardiovascular risk factor to be controlled and is common among patients with diabetes mellitus. [PMID: 36193727] To update the recommendations of the Spanish Society of Neurology on primary and secondary stroke prevention in patients with arterial hypertension. We proposed several questions to identify practical issues for the management of blood pressure (BP) in stroke prevention, analysing the objectives of blood pressure control, which drugs are most appropriate in primary prevention, when antihypertensive treatment should be started after a stroke, what levels we should aim to achieve, and which drugs are most appropriate in secondary stroke prevention. [PMID: 34238528] Herein, we provide a review of the recent literature on the epidemiological and pathophysiological relationship between hypertension (HTN) and diabetes mellitus, along with prognostic implications and current treatment concepts. Diabetes mellitus affects ~10% of US adults. [PMID: 32371623] This summary is based on 3 research papers. See source documents for complete details.

## Sources (3):

1. **PMID:** 36193727

**Title:** Blood Pressure Target in Type 2 Diabetes Mellitus.

**Specialty:** diabetes

2. **PMID:** 34238528

**Title:** Stroke prevention in patients with arterial hypertension: Recommendations of the Spanish Society of Neurology's Stroke Study Group.

**Specialty:** neurology

3. **PMID:** 32371623

**Title:** Hypertension and diabetes mellitus: highlights of a complex relationship.

**Specialty:** diabetes

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