

Supplementary Table 1 Representative clinical trials on Metformin used as an anti-cancer therapy

Study title	Condition	Status	Drugs	Phase	NCT Number
Effect of Metformin on Breast Cancer Metabolism	Breast Cancer	Completed	Drug: Metformin	II	NCT01266486
Clinical and Biologic Effects of Metformin in Early Stage Breast Cancer	Breast Cancer	Completed	Drug: Metformin	NA	NCT00897884
Metformin-Docetaxel Association in Metastatic Hormone-refractory Prostate Cancer	Prostatic Neoplasms	Completed	Drug: METFORMIN. Drug: Placebo. Drug: TAXOTERE®	II	NCT01796028
Combination of Metformin to Noadjuvant Radiochemotherapy in the Treatment of Locally Advanced Rectal Cancer (METCAP)	Rectal Cancer	Completed	Drug: Metformin	II	NCT02437656
Pre-Surgical Trial of the Combination of Metformin and Atorvastatin in Newly Diagnosed Operable Breast Cancer	Breast Cancer. Breast Tumors. Cancer of Breast	Recruiting	Drug: Metformin. Drug: Atorvastatin. Procedure: Breast surgery	I	NCT01980823
Altered Tumor Oxygenation by Metformin, a Potential Step in Overcoming Radiotherapy Resistance in LACC	Cervical Cancer	Recruiting	Drug: Metformin. Drug: Cisplatin	II	NCT04275713

The Effect of Metformin on Breast Cancer Breast Cancer Patients	Recruitin g	Drug: Metformin.	II	NCT04559
Noadjuvant Chemotherapy Breast Cancer With or Without Metformin in Early Breast Cancer.	Recruitin g	Drug: Metformin. Drug: Placebo oral and tablet	II III	NCT04387 630
Phase IB Metformin, Advanced Digoxin, Simvastatin in Solid Pancreatic Cancer. Tumors Advanced Solid Tumo	Recruitin g	Drug: Metformin. Drug: Simvastatin. Drug: Digoxin	I	NCT03889 795
Metformin Pharmacology in Thoracic Human Cancers: A Proof of Neoplasm Principle Study	Recruitin g	Drug: Metformin	Early Phase I	NCT03477 162
Role of Adding Metformin to Breast Cancer Noadjuvant Chemotherapy Female in Patients With Breast Cancer (METNEO)	Recruitin g	Drug: Metformin Hydrochloride 850 mg Tablets. Drug: AC-T chemotherapy regimen	II	NCT04170 465
Phase II Study of Oral Superficial Metformin for Intravesical Bladder Cancer. Treatment of Bladder Cancer Non-muscle-invasive Bladder Cancer	Recruitin g	Drug: Metformin	II	NCT03379 909
Metformin Prostate Cancer Prostate Cancer Adjuvant Trial Prostate Cancer Recurrent	Recruitin g	Drug: Metformin Hydrochloride Extended Release 750mg	II	NCT02176 161
Randomized Trial of HER2-positive Neo-adjuvant Chemotherapy Breast Cancer With or Without Metformin	Recruitin g	Drug: Taxotere, Carboplatin, Herceptin	II +	NCT03238 495

Metformin in Head and Neck	Head and Neck	Recruitin	Drug: Metformin	NA	NCT03510
Squamous Cell Carcinoma:	Cancer.	Oral g			390
Effect on Tissue Oxygenation	Cavity	Squamous			
	Cell Carcinoma				

PD-1: Programmed cell death protein 1.