

Evoluzione Delle Competenze Del Tsrn In Ambito Procedurale, Tecnologico E Radioprotezionistico: Impianto Port A Cath Arterioso Epato-pancreatico

TSRM G.Falagario

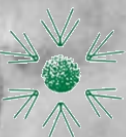
U.O. Oncologia Interventistica

Istituto Tumori IRCCS Giovanni Paolo II Bari



ISTITUTO TUMORI "GIOVANNI PAOLO II"

ISTITUTO DI RICOVERO E CURA A CARATTERE SCIENTIFICO





WORKING TEAM

COMPETENZE

MOTIVAZIONI

OBIETTIVI

RADIOLOGO
INTERVENTISTA

INFERMIERE

TSRM

ANESTESISTI

ONCOLOGO
INTERVENTISTA

RAGGIUNGIMENTO
RISULTATO ED
INCREMENTO DELLE
POTENZIALITA'
DIAGNOSTICHE E
TERAPUETICHE PER IL
PAZIENTE



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**TSRM in
ONCOLOGIA
INTERVENTISTICA**



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OTTIMIZZAZIONE PROCEDURALE

< TEMPO PROCEDURA

< N° PRESIDI

<DOSE ASSORBITA
OPERATORE-PAZIENTE

>SICUREZZA DEL PAZIENTE

Approccio multidisciplinare = **RISORSA**

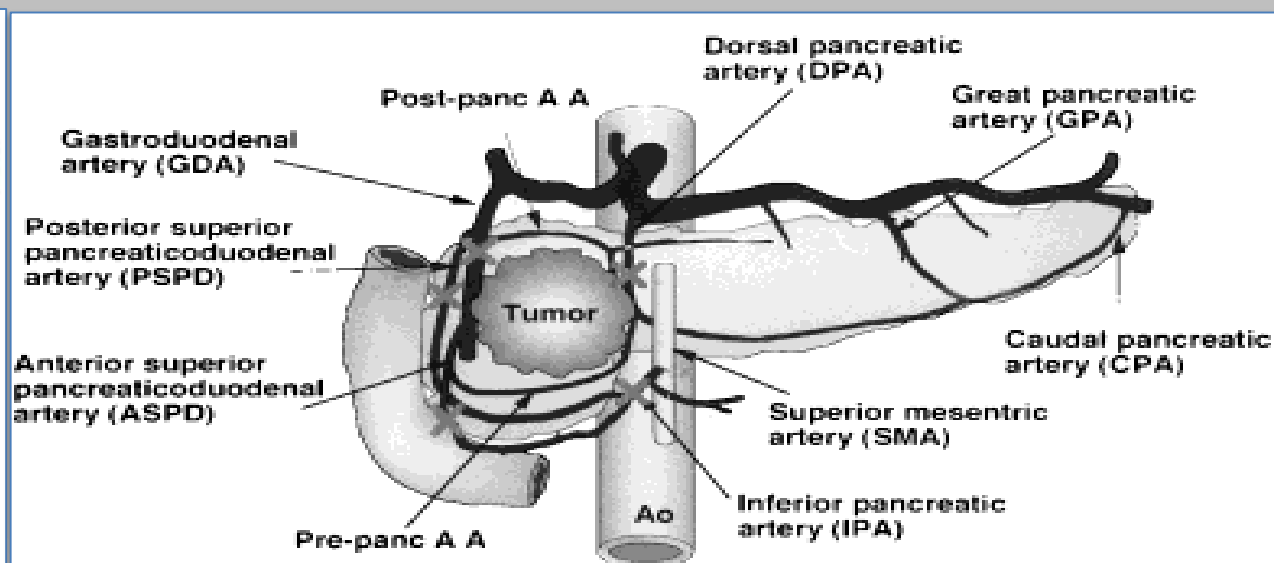
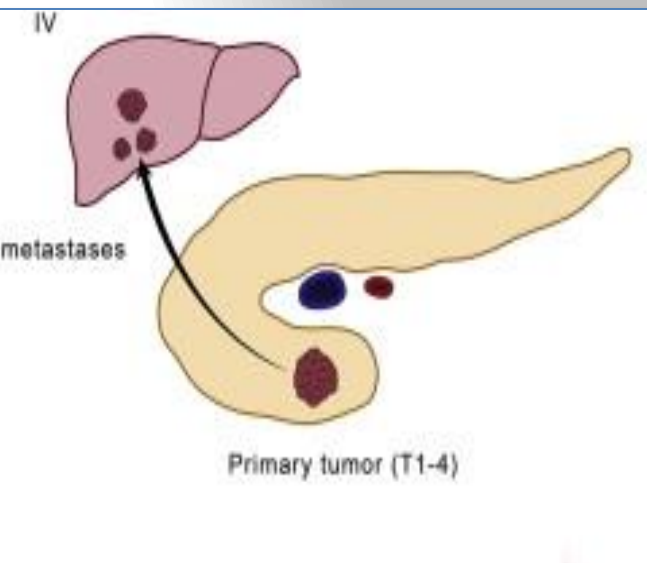
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Port-a-cath intra-arterioso epato-pancreatico: aspetti tecnici

Consiste in una **chemioterapia locoregionale epato-pancreatica** mediante **iniezione trans port a cath** dei farmaci per mezzo di una **pompa di infusione elettronica esterna** così da ottenere alte concentrazioni di chemioterapico solo in pancreas e fegato



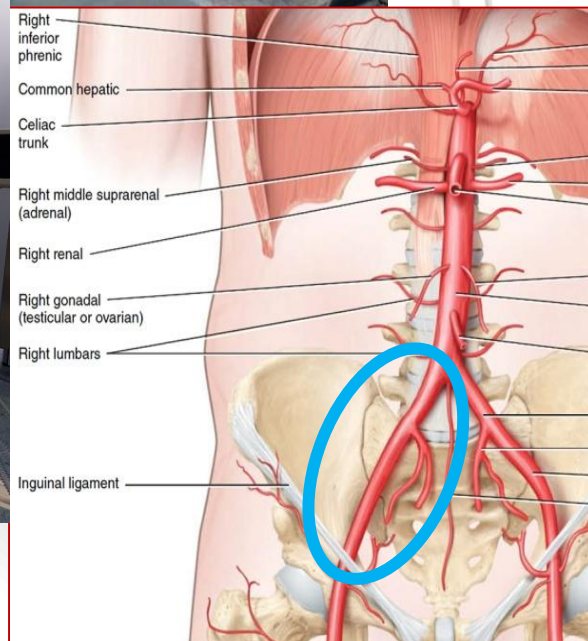
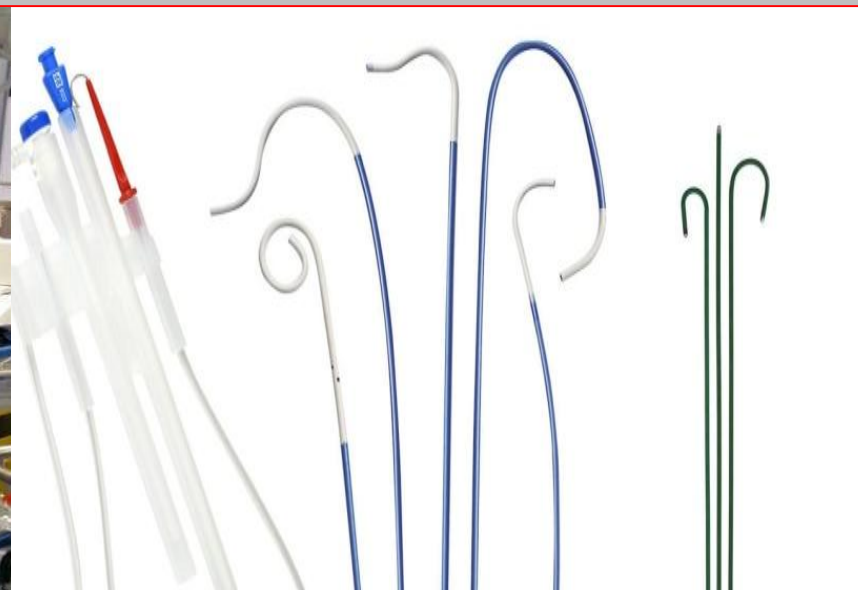
Evitando o riducendo al minimo gli effetti collaterali di tossicità generale e garantendo un accesso sicuro e permanente al letto arterioso epatico-pancreatico



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ACCESSO ARTERIOSO E PREPARAZIONE VASCOLARE

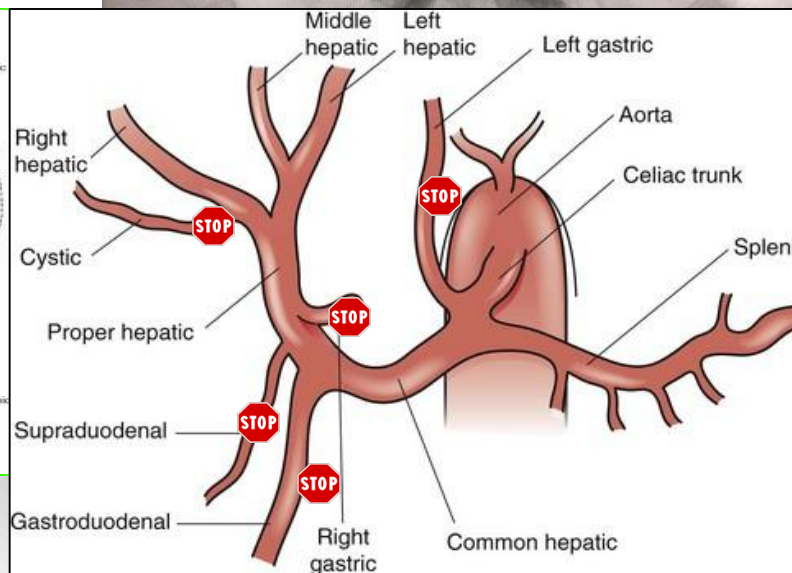
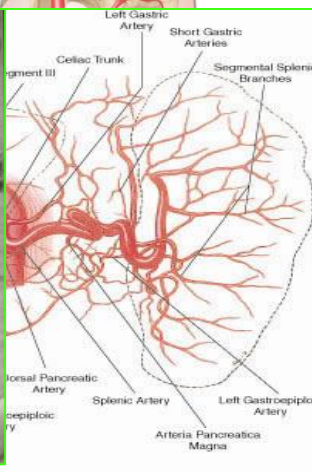
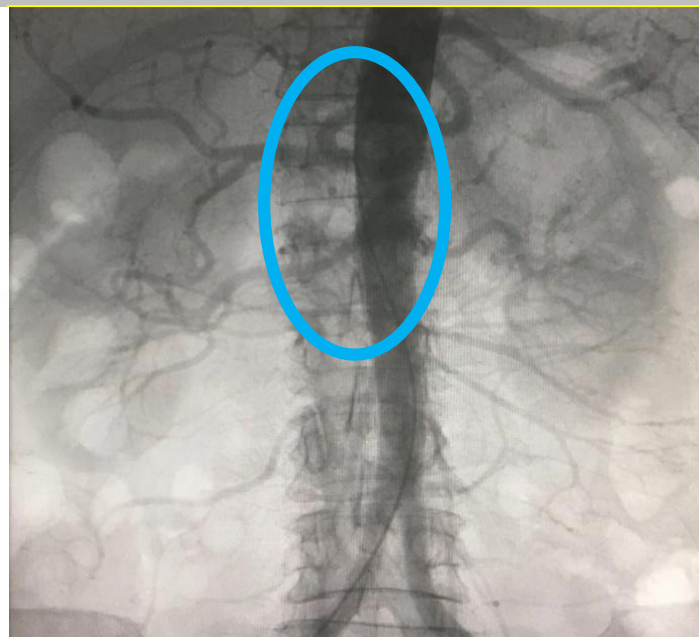
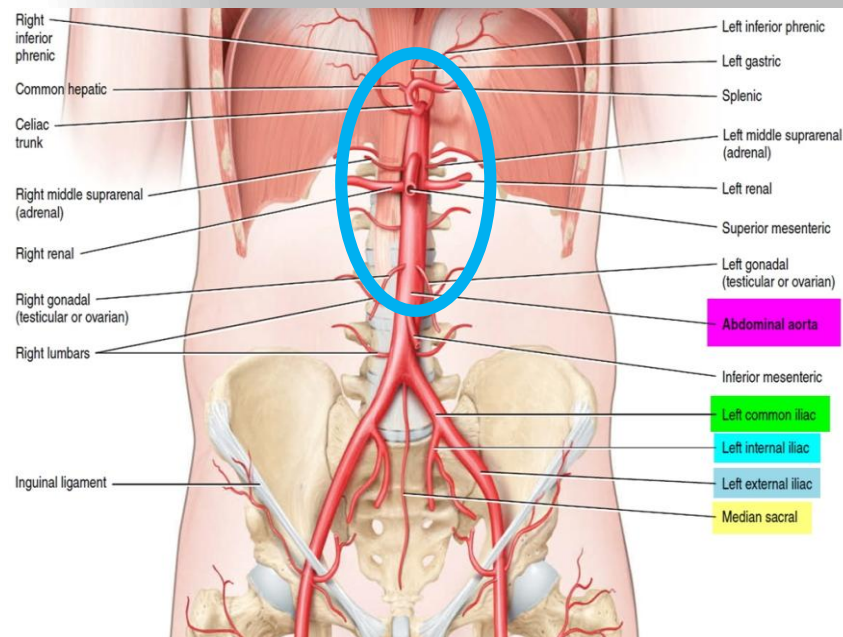


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ACCESSO ARTERIOSO E PREPARAZIONE VASCOLARE

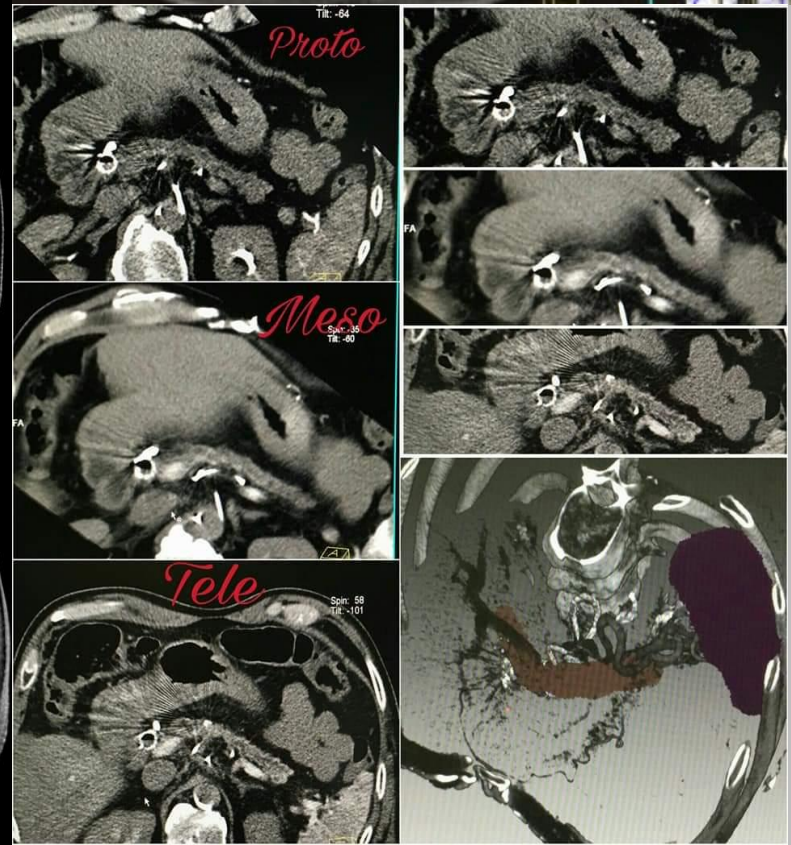
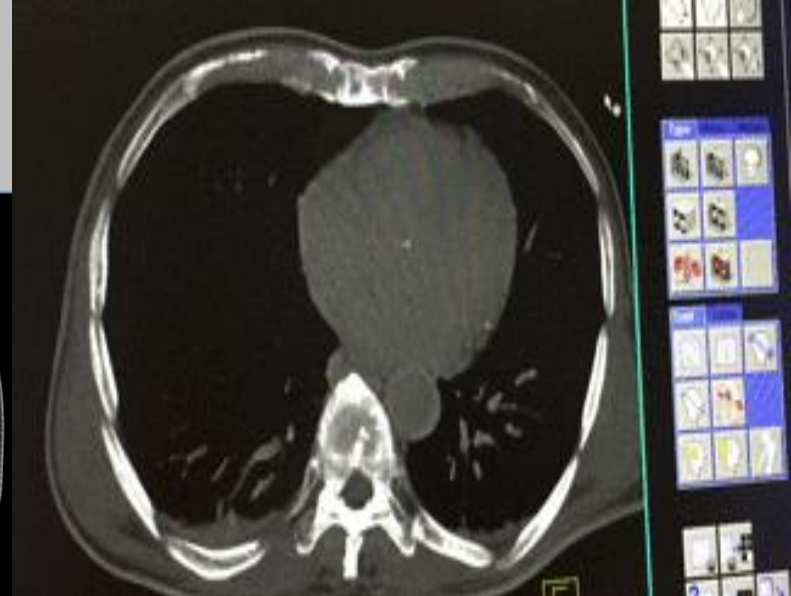
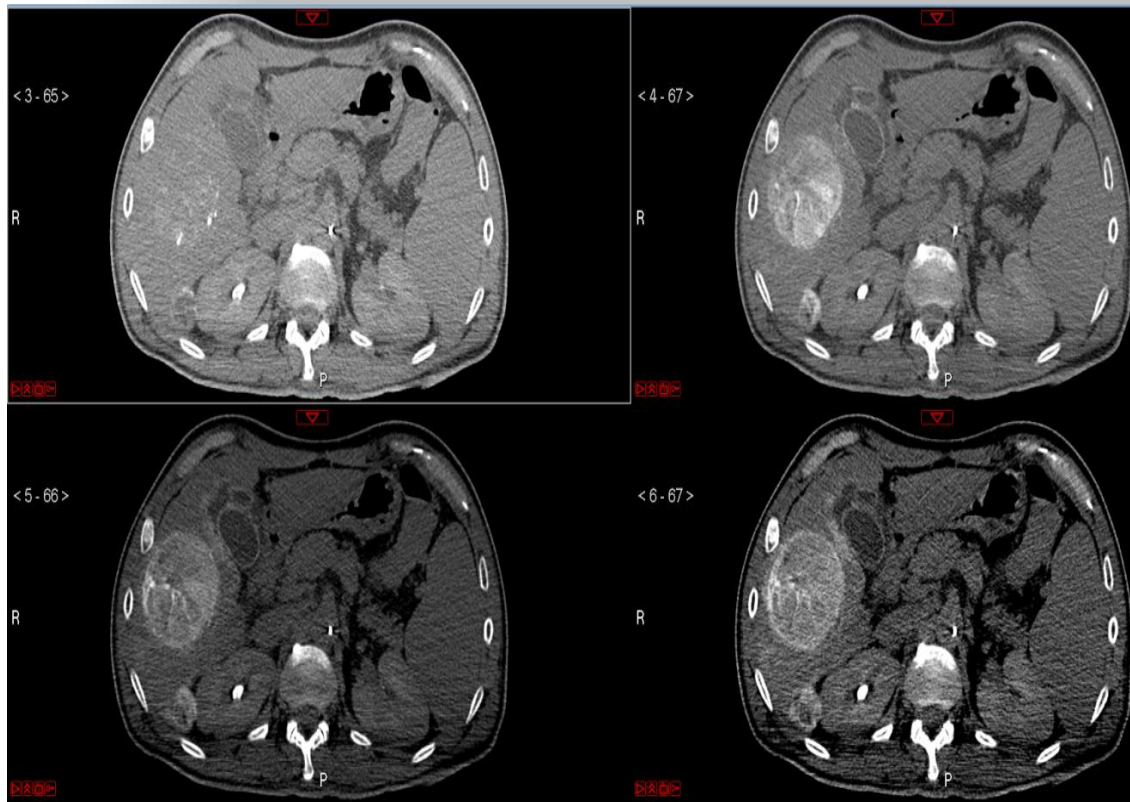




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STUDIO VASCOLARE: ARTERIO-CT SUPERSELETTIVO



FASI VASCOLARI

- PROTO-ARTERIOSA (Delay 4s)
- MESO-ARTERIOSA (Delay 8s)
- TELE-ARTERIOSA (Delay 12s)
- TARDIVA (Delay 40s)

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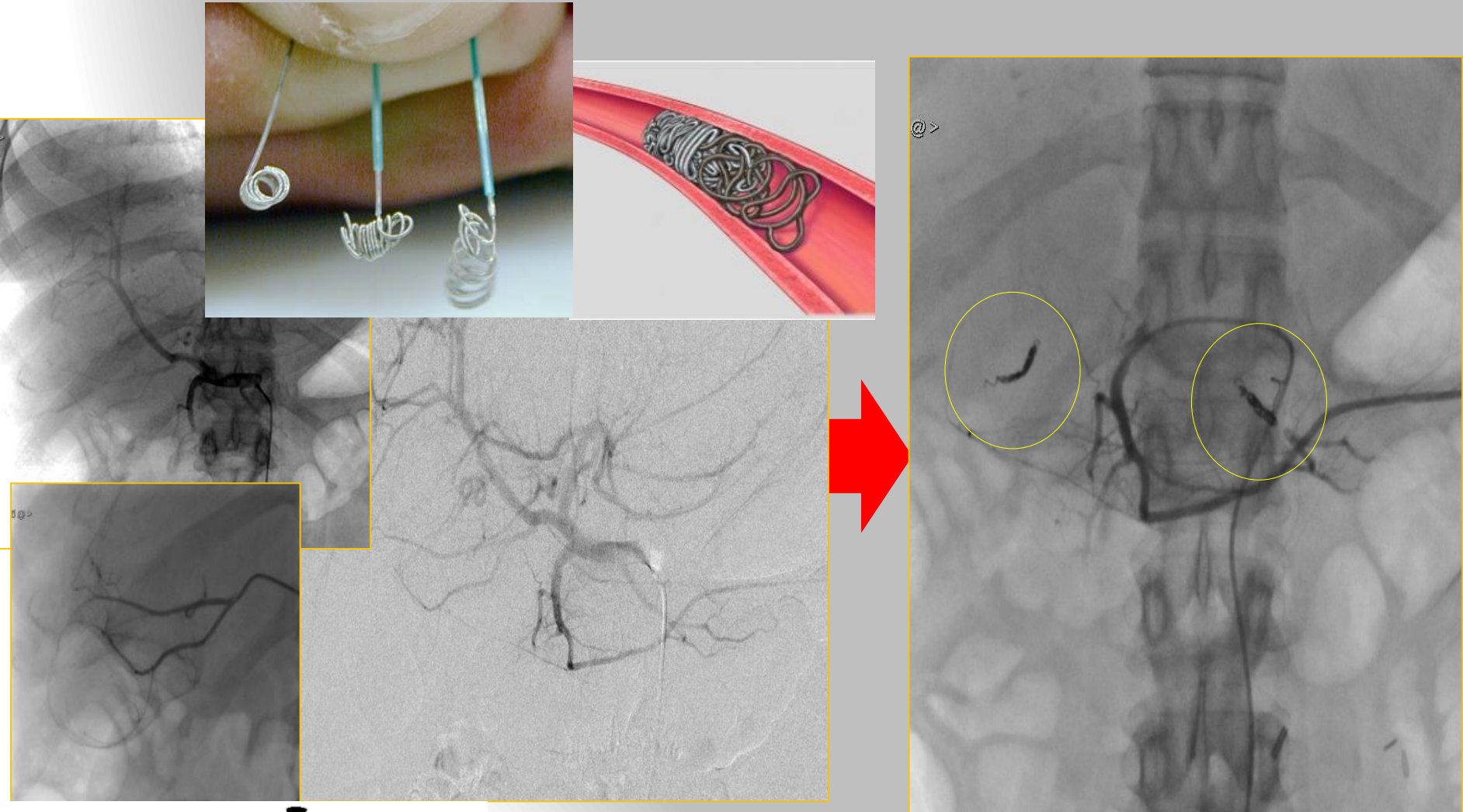


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EMBOLIZZAZIONE SELETTIVA DEI RAMI ARTERIOSI NON FUNZIONALI ALLA TERAPIA



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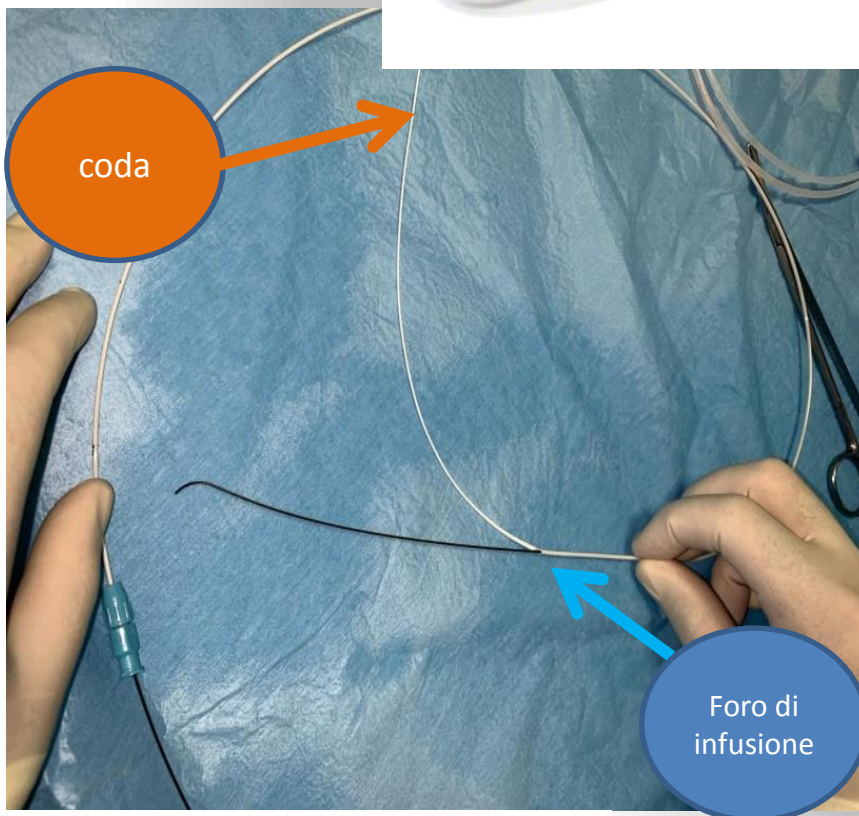
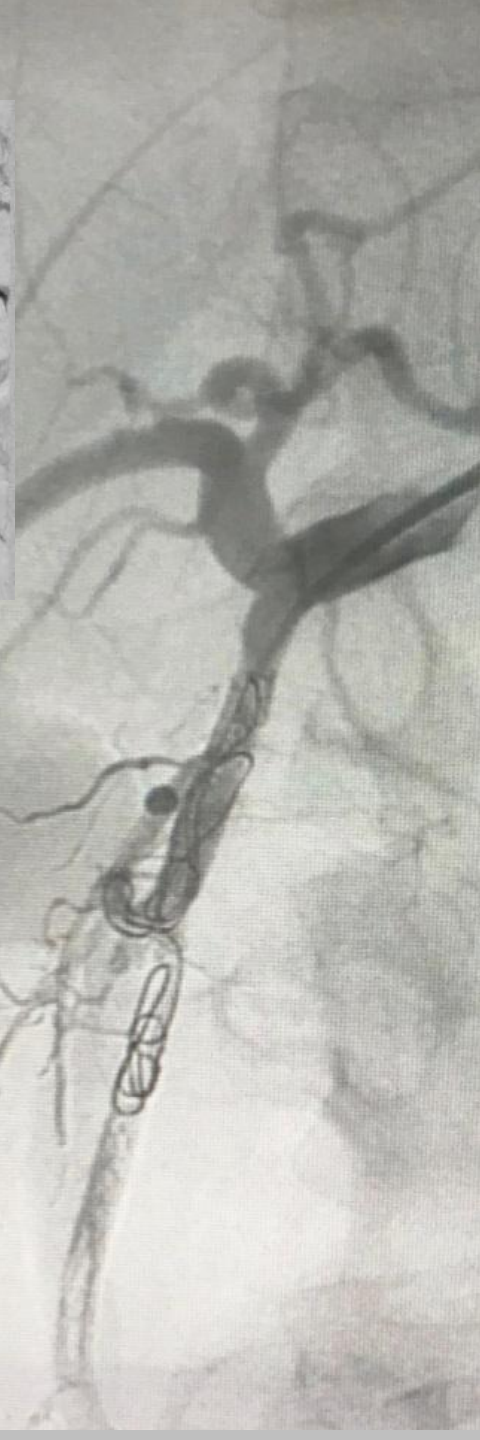
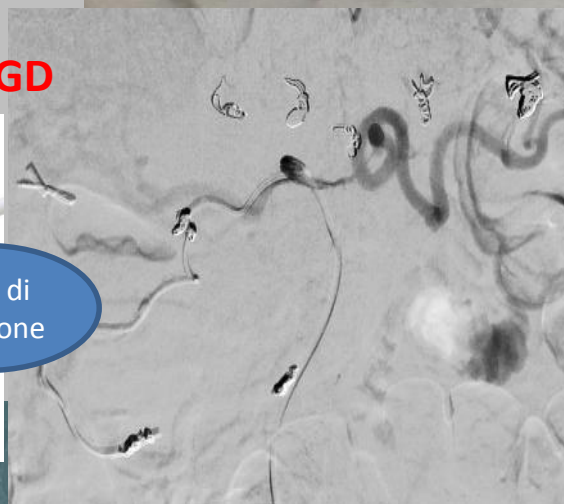
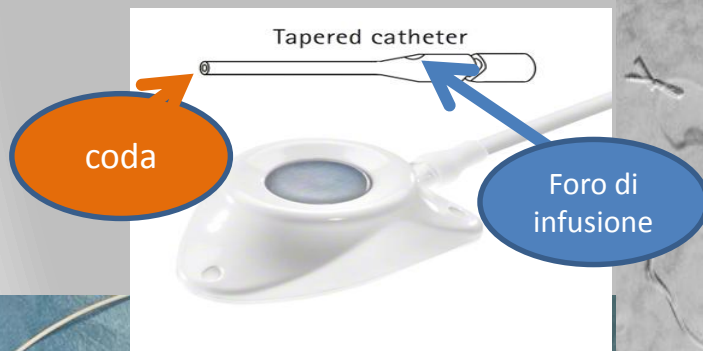
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IMPIANTO CATETERE E ANCORAGGIO IN A.GD



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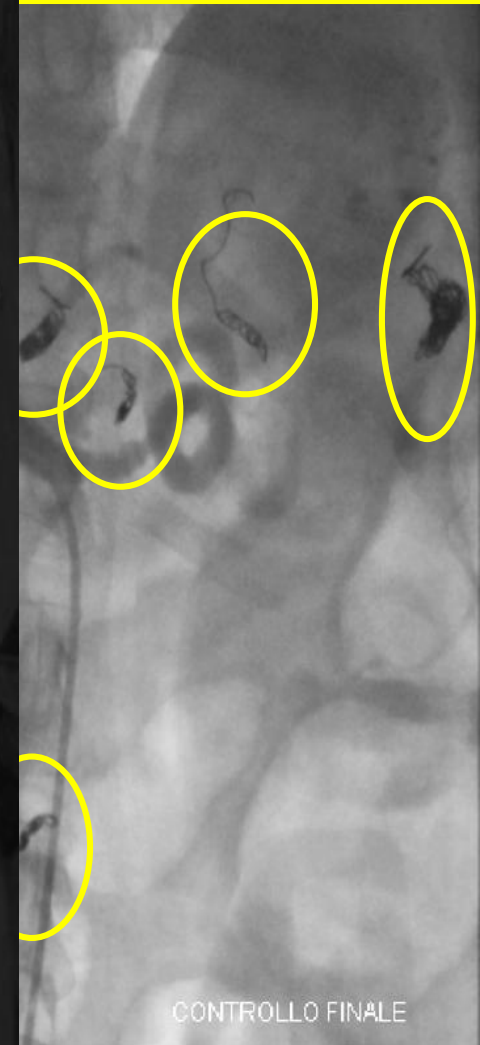
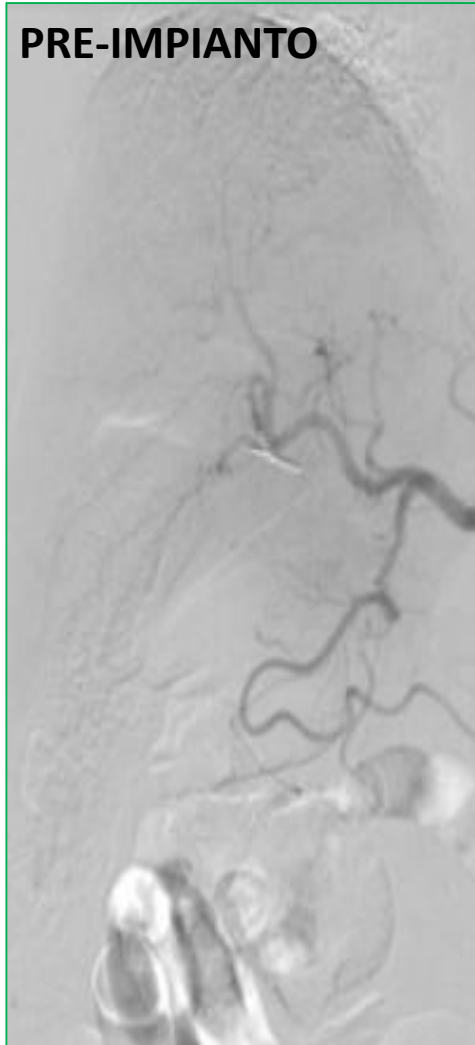
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Port-a-cath

PRE-IMPIANTO



CONTROLLO FINALE

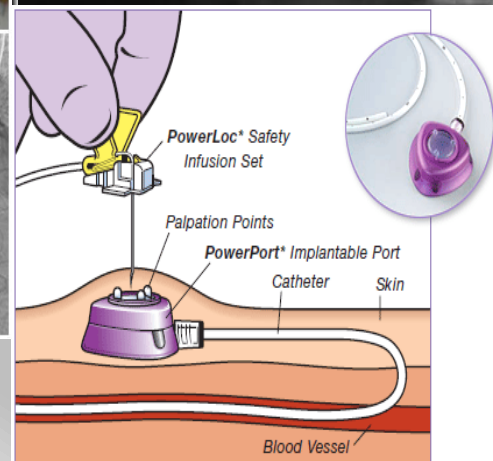
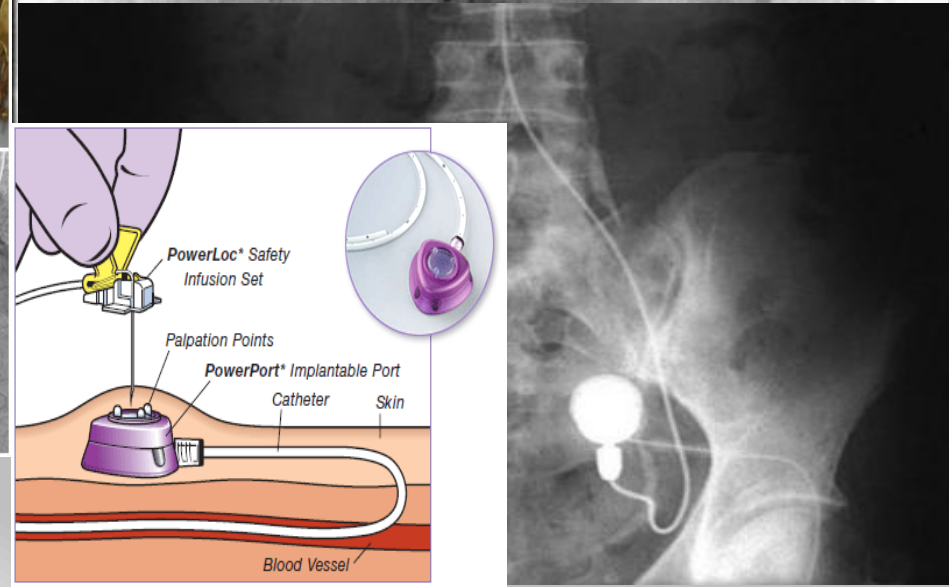
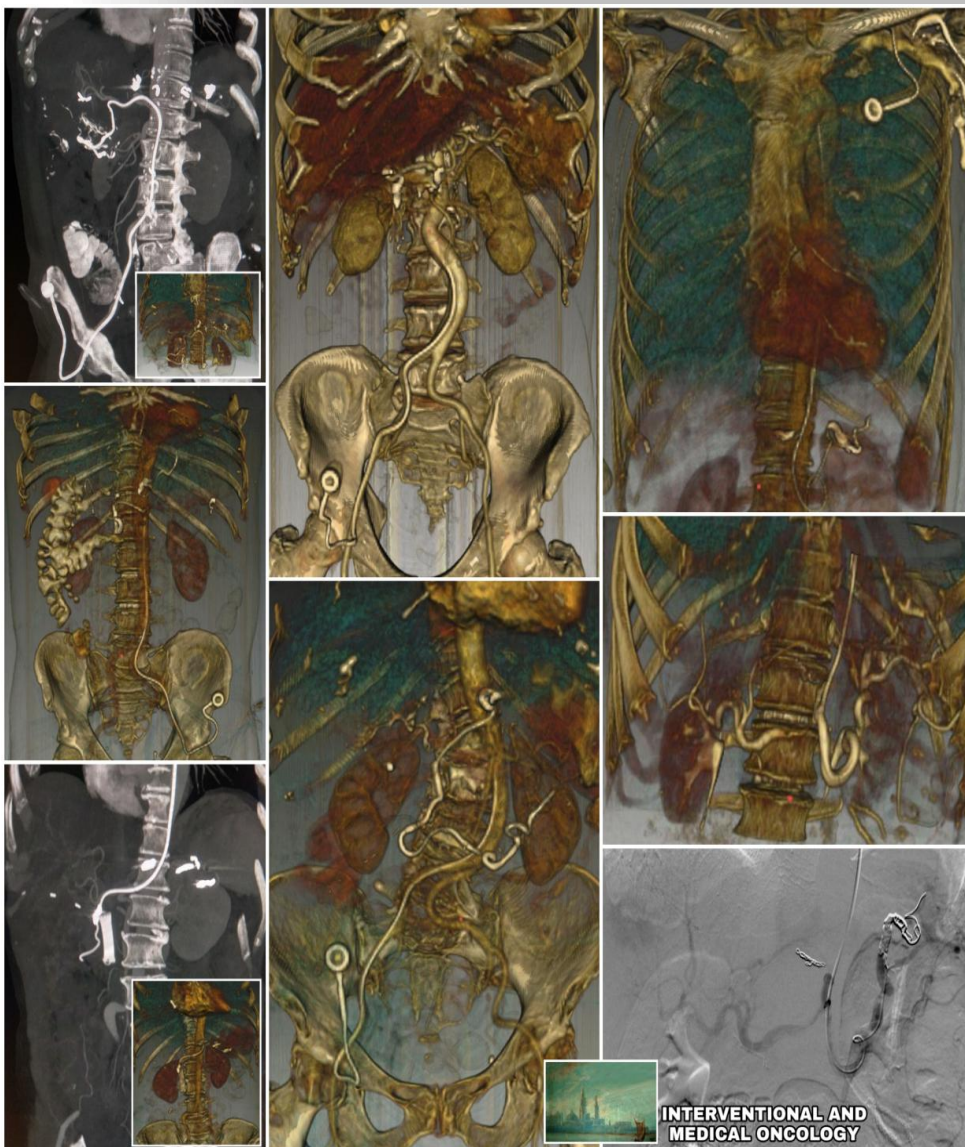
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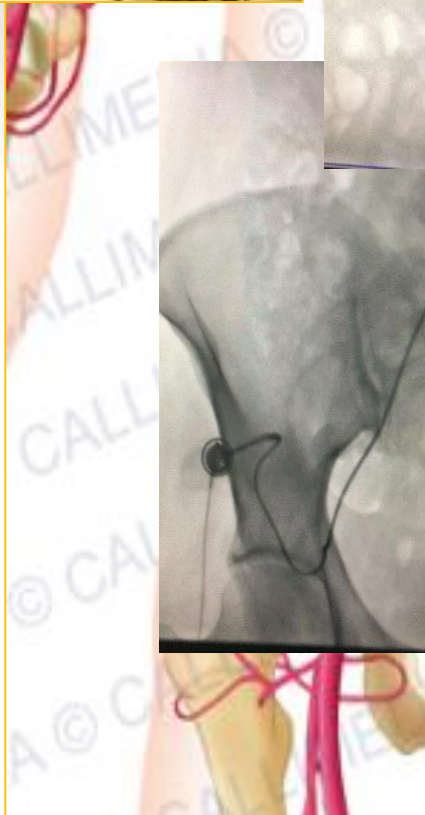
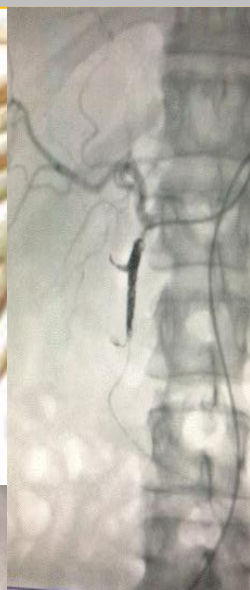


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FOLLOW UP e COMPLICANZE

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FOLLOW UP e COMPLICANZE

➤ Emorragia nel sito di accesso arterioso

➤ Dislocazione del catetere (0,2-10%)

➤ Occlusione o kinking del catetere

➤ Trombosi di arteria epatica (0,1-2%)

Impianto



Dislocazione 2m



Reimpianto





Exam Protocol

Patient Info:									
Name: A. M.				Sex: M ID: 52					

Patient Position: HFS						26-Sep-17 09:48:05			
1	DSA	FIXED	Body 3	6s	3F/s	26-Sep-17 10:08:18			
A	74kV 589mA	80.2ms	0.1CL large 0.0Cu 48cm	5621.3µGym²	160mGy	0LAO 1CAU 20F			
4	DSA	FIXED	Body 3	12s	3F/s	26-Sep-17 10:11:58			
A	76kV 575mA	80.2ms	0.3CL large 0.0Cu 42cm	8622.7µGym²	320mGy	0LAO 1CAU 38F			
5	DSA	FIXED	Body 3	*****	3F/s	26-Sep-17 10:15:44			
A	79kV 552mA	80.4ms	0.4CL large 0.0Cu 42cm	472.75µGym²	17.5mGy	0LAO 1CAU 2F			
7	DSA	FIXED	Body 3	16s	3F/s	26-Sep-17 10:19:29			
A	78kV 555mA	80.5ms	0.6CL large 0.0Cu 48cm	15071µGym²	424mGy	0LAO 1CAU 50F			
8	DSA	FIXED	Body 3	3s	3F/s	26-Sep-17 10:44:09			
A	78kV 277mA	80.2ms	0.7CL small 0.0Cu 42cm	1669.5µGym²	43.7mGy	0LAO 1CAU 11F			
9	DSA	FIXED	Body 3	4s	3F/s	26-Sep-17 10:45:42			
A	87kV 500mA	80.4ms	0.8CL large 0.0Cu 22cm	1468.9µGym²	140mGy	0LAO 1CAU 14F			
11	DSA	FIXED	Body 3	3s	3F/s	26-Sep-17 10:55:55			
A	96kV 440mA	85.1ms	0.9CL large 0.0Cu 42cm	2100.5µGym²	75.2mGy	52LAO 0CRA 10F			
15	DSA	FIXED	Body 3	5s	3F/s	26-Sep-17 11:17:15			
A	95kV 458mA	80.2ms	2.1CL large 0.0Cu 22cm	1348.5µGym²	161mGy	2RAO 1CAU 17F			
87	DSA	FIXED	Body 3	1s	3F/s	26-Sep-17 14:09:29			
A	96kV 432mA	88.4ms	11.6CL large 0.0Cu 32cm	693.67µGym²	53.4mGy	1LAO 1CAU 5F			
88	DSA	FIXED	Body 3	8s	3F/s	26-Sep-17 14:10:07			
A	93kV 463mA	82.1ms	11.7CL large 0.0Cu 32cm	3472.1µGym²	267mGy	1LAO 1CAU 26F			
89	DSA	FIXED	Body 3	33s	3F/s	26-Sep-17 14:22:03			
A	80kV 543mA	80.4ms	12.5CL large 0.0Cu 48cm	25783µGym²	858mGy	1LAO 1CAU 99F			
96	DSA	FIXED	Body 3	17s	3F/s	26-Sep-17 15:08:35			
A	84kV 519mA	80.4ms	14.5CL large 0.0Cu 42cm	10732µGym²	472mGy	1LAO 1CAU 51F			
97	DSA	FIXED	Body 3	18s	3F/s	26-Sep-17 15:10:44			
A	84kV 517mA	80.3ms	14.8CL large 0.0Cu 42cm	11573µGym²	509mGy	1LAO 1CAU 55F			
Accumulated exposure data									
						27-Sep-17 08:07:07			
Performing Physician: DR GABRIELLA DE LUCA, DR. DE LUCA, DR. DE LUCA						Exposures: 38			
Total Fluoro: 85.8min						Total: 39672µGym²		2485mGy	
A	Fluoro: 85.8min		33421µGym²		2315mGy		Total: 39672µGym²		2485mGy

Exam Protocol

Patient Info:									
Name: T. G. [REDACTED]					Sex: M ID: 6 [REDACTED]				

Patient Position: HFS						11-Apr-19 09:38:15			
3	DSA	FIXED	CARE Body 3	30s	3F/s	11-Apr-19 10:45:46			
A	68kV 379mA	50.2ms	0.0CL small 0.2Cu 48cm	3296.6µGym²	62.4mGy	1RAO 0CRA 133F			
13	DSA	FIXED	CARE Body 3	30s	3F/s	11-Apr-19 12:05:35			
A	71kV 608mA	50.3ms	0.8CL large 0.1Cu 32cm	4139.3µGym²	219mGy				
25	DSA	FIXED	CARE Body 3	19s	3F/s	11-Apr-19 12:06:15			
A	79kV 324mA	50.1ms	1.7CL small 0.1Cu 32cm	1717.8µGym²	90.5mGy				
27	DSA	FIXED	CARE Body 3	25s	3F/s	11-Apr-19 12:06:27			
A	72kV 357mA	50.1ms	2.0CL small 0.1Cu 42cm	3270.0µGym²	97.9mGy				
32	DSA	FIXED	CARE Body 3	27s	3F/s	11-Apr-19 12:08:23			
A	72kV 357mA	50.1ms	2.6CL small 0.1Cu 42cm	3484.7µGym²	104mGy	4X8 ,6X10, 6X15			
34	DSA	FIXED	CARE Body 3	23s	3F/s	11-Apr-19 12:09:00			
A	72kV 355mA	50.1ms	2.9CL small 0.1Cu 42cm	2988.6µGym²	89.5mGy	1LAO 0CRA 69F			

Exam Protocol

Patient Info:									
Name: T. G. Sex: M ID: 63									
Accumulated exposure data 11-Apr-19 12:09:09									
Performing Physician: DR d. Exposures: 1									
Total Fluoro: 31.7min				Total: 11842µGym ²		738.7mGy			
A Fluoro: 31.7min				10574µGym ²		707.1mGy			
				Total: 11842µGym ²		738.7mGy			

OTTIMIZZAZIONE PROCEDURALE

RIDUZIONE TEMPO PROCEDURA 50%

ELEVATO RISPARMIO DI PRESIDI

RIDUZIONE ESPOSIZIONE 30%

INTERVENTIONAL *and* MEDICAL ONCOLOGY UNIT

IRCCS ONCOLOGICO – Giovanni Paolo II - BARI



**Grazie
per l'attenzione**

