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The Next Generation of Pectus Excavatum Surgery

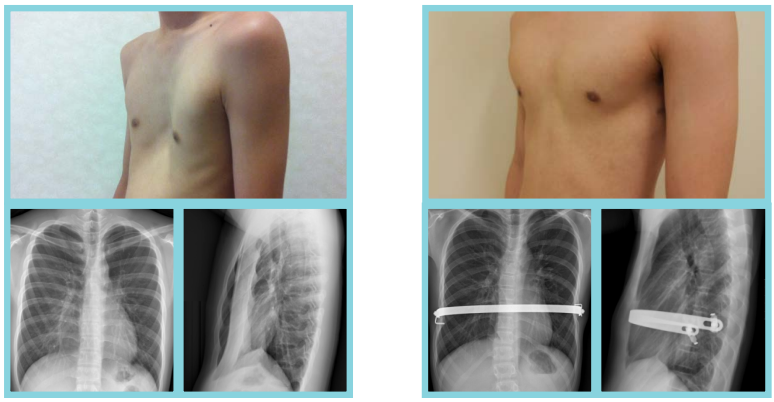
Primemed Inc.
(주)프라임메드

Park's Pectus System

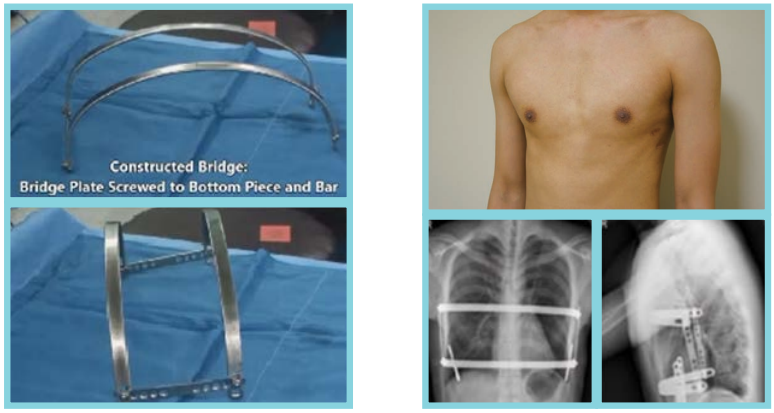
A convenient and simple technique for Pectus Excavatum Correction!

Dr. Park has developed simple and convenient minimal invasive pectus implant to remodel the chest disorder. This congenital deformity appears in approximately one of every 1,000 children. This concave funnel shaped chest can pressure the vital organs, resulting restricted organ growth and shortness of breath.

■ Single Bar Technique – by Claw Fixator



■ Multi Bar Technique – by Bridge Fixator



Developed by;

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Features of Park's System

- Pectus bar's rounded and smooth ends prevent for tissue damages.
- It provides with both titanium and stainless bar options
  (titanium is provided to the patients with nickel allergies).
- All instruments are designed to increase simplicity during Dr. Park's procedure.
- The Claw Fixator stabilizer helps to be attached the bar between the sternum firmly.
- Bridge Fixator is connection between the each bar with plates and nuts.
- PectoScope provides better view for the path of Pectus Bar safely.
- Crane combo system makes easily lifting a Sternum and pressing a flare during the surgery.

Benefits:

- Minimal invasive technique: no incision in the anterior chest wall, resect rib cartilages nor perform sternal osteotomy
- Prevent bar displacement by excellent stability
- Best cosmetical result
- Reducing operating time
- Minimal Blood Loss
- Fast recovery

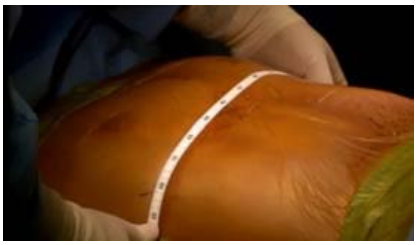
For more information on Pectus procedure, Please see on YouTube.

Fixator and Bridge (https://www.youtube.com/watch?v=qhySnNzWfBU)
Flarebuster Technique (https://www.youtube.com/watch?v=SPmP5mxbwTY)
Pectus Procedure (https://www.youtube.com/watch?v=9ti7cY3FrFA)

Dr. Park's Surgical Technique

1
A general antibiotics is started at the time of surgery.

2
The patient is positioned with the both arms abducted at the shoulders to allow access to the lateral chest wall.



3
Determine mark prior to the incision, and confirming preoperative measurements.

4
Pre bend the bar with table top bar bender and handheld bar bender.

5
Bilateral 1~1.5cm thoracic incisions are made at the predetermined marks.

6
Using a PectoScope the path through the chest wall for safety.

7
Crane Combo System is applied to elevate the sternum in order to provide better path for the Pectus bar.

8

The bar is inserted with the chest tube and the Pectus clamp

9

Once the bar is into to the right position, the bar is flipped with the flipper in order to elevate concave sternum.

10

Assemble the claw fixator to the bar, and make sure they are fixed properly(According to the indication, bars can be inserted additionally, when two bars are applied, fixation are made with the Bridge fixator, it is called Multi Bar Technique).

11

Suture and dressing are made.

Instruments Benefits:

PectoScope:

It allows better view and path for the implant to the chest wall, it minimizes tissue damages and avoids any other difficulties which can bring during the surgery.

The PectoScope is consisting of;

PPM - 2000 PectoScope complete	PPM - 003 Camera and light cable
PPM - 2001 PectoScope	PPM - 2002 Controller with Lightsource

Crane Combo System

Most of pectus excavatum patients are facing difficulties with the concave sternum deformity at the same time elevated flair deformity, in order to fulfill these two deformities, the best solution is by using Crane Combo System, this system helps to elevate the concave sternum by lifting the sternum and at the same time it helps with the flair compression, it solves two deformities with one system.

Crane Combo System is consisting of;

PPM-002-02
Base Clamp

PPM-002-04
Top Post

PPM-002-08
Controller
Assembly

PPM-002-03
Bottom Post

PPM-002-05
Supporting Bar

PPM-002-06
Crane Elevator

PPM-002-07
Flare Compressor

Park's Modified Pectus Bar

■ Modified Pectus Bar – Rounded end

Cat #		Description	Thickness	Cat #		Description	Thickness
Titanium Alloy	Stainless Steel			Titanium Alloy	Stainless Steel		
PPE-207	PPE-207S	Modified Pectus bar, 7"	2.8mm	PPE-307	PPE-307S	Modified Pectus bar, 7"	3.0mm
PPE-208	PPE-208S	Modified Pectus bar, 8"		PPE-308	PPE-308S	Modified Pectus bar, 8"	
PPE-209	PPE-209S	Modified Pectus bar, 9"		PPE-309	PPE-309S	Modified Pectus bar, 9"	
PPE-210	PPE-210S	Modified Pectus bar, 10"		PPE-310	PPE-310S	Modified Pectus bar, 10"	
PPE-211	PPE-211S	Modified Pectus bar, 11"		PPE-311	PPE-311S	Modified Pectus bar, 11"	
PPE-212	PPE-212S	Modified Pectus bar, 12"		PPE-312	PPE-312S	Modified Pectus bar, 12"	
PPE-213	PPE-213S	Modified Pectus bar, 13"		PPE-313	PPE-313S	Modified Pectus bar, 13"	
PPE-214	PPE-214S	Modified Pectus bar, 14"		PPE-314	PPE-314S	Modified Pectus bar, 14"	
PPE-215	PPE-215S	Modified Pectus bar, 15"		PPE-315	PPE-315S	Modified Pectus bar, 15"	
PPE-216	PPE-216S	Modified Pectus bar, 16"		PPE-316	PPE-316S	Modified Pectus bar, 16"	
PPE-217	PPE-217S	Modified Pectus bar, 17"		PPE-317	PPE-317S	Modified Pectus bar, 17"	
PPE-207H	PPE-207SH	Modified Pectus bar, 7.5"	2.8mm	PPE-307H	PPE-307SH	Modified Pectus bar, 7.5"	3.0mm
PPE-208H	PPE-208SH	Modified Pectus bar, 8.5"		PPE-308H	PPE-308SH	Modified Pectus bar, 8.5"	
PPE-209H	PPE-209SH	Modified Pectus bar, 9.5"		PPE-309H	PPE-309SH	Modified Pectus bar, 9.5"	
PPE-210H	PPE-210SH	Modified Pectus bar, 10.5"		PPE-310H	PPE-310SH	Modified Pectus bar, 10.5"	
PPE-211H	PPE-211SH	Modified Pectus bar, 11.5"		PPE-311H	PPE-311SH	Modified Pectus bar, 11.5"	
PPE-212H	PPE-212SH	Modified Pectus bar, 12.5"		PPE-312H	PPE-312SH	Modified Pectus bar, 12.5"	
PPE-213H	PPE-213SH	Modified Pectus bar, 13.5"		PPE-313H	PPE-313SH	Modified Pectus bar, 13.5"	
PPE-214H	PPE-214SH	Modified Pectus bar, 14.5"		PPE-314H	PPE-314SH	Modified Pectus bar, 14.5"	
PPE-215H	PPE-215SH	Modified Pectus bar, 15.5"		PPE-315H	PPE-315SH	Modified Pectus bar, 15.5"	
PPE-216H	PPE-216SH	Modified Pectus bar, 16.5"		PPE-316H	PPE-316SH	Modified Pectus bar, 16.5"	
PPE-217H	PPE-217SH	Modified Pectus bar, 17.5"		PPE-317H	PPE-317SH	Modified Pectus bar, 17.5"	

■ Modified Pectus Bar – Serrated end

Notch bar picture Cat #		Description	Thickness	Cat #		Description	Thickness
Titanium Alloy	Stainless Steel			Titanium Alloy	Stainless Steel		
PPE-107	PPE-107S	Modified Pectus bar, 7"	2.8mm	PPE-112	PPE-112S	Modified Pectus bar, 12"	2.8mm
PPE-108	PPE-108S	Modified Pectus bar, 8"		PPE-113	PPE-113S	Modified Pectus bar, 13"	
PPE-109	PPE-109S	Modified Pectus bar, 9"		PPE-114	PPE-114S	Modified Pectus bar, 14"	
PPE-110	PPE-110S	Modified Pectus bar, 10"		PPE-115	PPE-115S	Modified Pectus bar, 15"	
PPE-111	PPE-111S	Modified Pectus bar, 11"					
PPE-107H	PPE-107SH	Modified Pectus bar, 7.5"	2.8mm	PPE-112H	PPE-112SH	Modified Pectus bar, 12.5"	2.8mm
PPE-108H	PPE-108SH	Modified Pectus bar, 8.5"		PPE-113H	PPE-113SH	Modified Pectus bar, 13.5"	
PPE-109H	PPE-109SH	Modified Pectus bar, 9.5"		PPE-114H	PPE-114SH	Modified Pectus bar, 14.5"	
PPE-110H	PPE-110SH	Modified Pectus bar, 10.5"		PPE-115H	PPE-115SH	Modified Pectus bar, 15.5"	
PPE-111H	PPE-111SH	Modified Pectus bar, 11.5"					

Park's Fixation System

■ Stabilizer A type – Claw Fixator

Cat #		Description
Titanium Alloy	Stainless Steel	
PCF-510	PCF-510S	Clip
PCF-612	PCF-612S	Claw Fixator, S, 20x12mm, Straight type
PCF-615	PCF-615S	Claw Fixator, M, 23x15mm, Straight type
PCF-618	PCF-618S	Claw Fixator, L, 25x18mm, Straight type
PCF-622	PCF-622S	Claw Fixator, XL, 30x18mm, Straight type
PCFB-612	PCFB-612S	Claw Fixator, S, 20x12mm, pre-bending type
PCFB-615	PCFB-615S	Claw Fixator, M, 23x15mm, pre-bending type
PCFB-618	PCFB-618S	Claw Fixator, L, 25x18mm, pre-bending type
PCFB-622	PCFB-622S	Claw Fixator, XL, 30x18mm, pre-bending type
PCF-714	PCF-714S	Nut

Clip

Claw-Fixator, Pre-bending

Nut

■ Stabilizer B type– Bridge Fixator

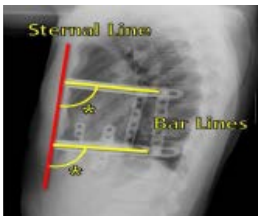
6hole

8hole

10hole

12hole

Cat #		Description	Thickness	Cat #		Description	Thickness
Titanium Alloy	Stainless Steel			Titanium Alloy	Stainless Steel		
PCF-806	PCF-806S	Bridge Stabilizer, Type1, 6 hole	1.0mm	PCF-807	PCF-807S	Bridge Stabilizer, Type1, 6 hole	1.2mm
PCF-808	PCF-808S	Bridge Stabilizer, Type2, 8 hole		PCF-809	PCF-809S	Bridge Stabilizer, Type2, 8 hole	
PCF-810	PCF-810S	Bridge Stabilizer, Type3, 10 hole		PCF-811	PCF-811S	Bridge Stabilizer, Type3, 10 hole	
PCF-812	PCF-812S	Bridge Stabilizer, Type4, 12 hole		PCF-813	PCF-813S	Bridge Stabilizer, Type4, 12 hole	



	POD_5	POM_4	Difference	P
Upper Bar	86.66±5.31	86.89±5.40	0.23	0.602
Lower Bar	92.39±5.14	92.04±5.22	0.35	0.338

■ Stabilizer C type - Hinge Plate

Cat #		Description
Titanium Alloy	Stainless Steel	
PCF-410	PCF-410S	Hinge Plate, 65mm

Primemed Instruments

■ Fixator Driver

Cat #	Description
PPM-010	180mm

■ Fixator clip Applier

Cat #	Description
PPM-011	150mm

■ Modified Flipper

Cat #	Description
PPM-015	270mm

■ Modified Clamp

Cat #	Description
PPM-013	380mm

■ Handheld Bar Bender

Cat #	Description
PMI-021	230mm

■ Table Top Bender

Cat #
PMI-020

■ Bar Introducer

Cat #	Description
PMI-022	Small
PMI-023	Large

■ Hercules Bar Removal Bender

Cat #	Description
PPM-012	260mm

■ Carinatum Tunneler

Cat #
PMI-072

■ Fixator Container

Cat #
PPM-019

Park's Pectus Surgery Kit

NO	ITEM	DESCRIPTION	Q'TY
1	PPM-010	Fixator Driver, 180mm	2EA
2	PPM-011	Fixator Applier, 150mm	2EA
3	PPM-015	Modified Flipper, 270mm	2EA
4	PMI-021	Handheld Bar Bender. 230mm	1EA
5	PMI-020	Table Top Bender	1EA
6	PMI-022	Bar Introducer, Small, 440mm	1EA
7	PMI-023	Bar Introducer, Large, 490mm	1EA
8	PPM-013	Modified Clamp, 380mm	1EA
9	PPM-012	Removal Bender. 260mm	1EA
10	PMI-053	Bone Hook, Narrow, 170mm	2EA
11	PMI-072	Tunneler for Flare Buster, 370mm	1EA
12	PPM-019	Fixator Container	1EA
13	B404021	CUSHING DISSECTING FORCEPS L:180MM CURVED WITHOUT TEETH	1EA
14	J758200	WIRE CUTTING PLIERS L:180MM 4 ARTICULATIONS TC JAWS	2EA
15	B805301	WEITLANER RETRACTOR L:130MM WITH 3 AND 4 BLUNT TEETH DEPTH:16MM	1EA
16	B805251	WEITLANER RETRACTOR L:105MM WITH 2 AND 3 BLUNT TEETH DEPTH:14MM	1EA
17	DC32000-00	GIBBON RIB CONTRACTOR ADULT RETRACTOR L:165MM 45MM JAWS	1EA
18	B802892	KOCHER-LANGENBECK RETRACTOR L::215MM 70X14MM	2EA
19	B802890	KOCHER-LANGENBECK RETRACTOR L:215MM 42X11MM	2EA
20	B80304	DESMARRES RETRACTOR L:150MM 12MM	2EA
21	B803092	CUSHING RETRACTOR L:240MM 12MM	1EA
22	B803084	CUSHING RETRACTOR L:200MM 16MM	2EA
23	B801490	VOLKMANN RETRACTOR L:220MM OPENWORK HANDLE 1 SHARP TOOTH	2EA
24	B802866	KOCHER RETRACTOR L:220MM 1 SHARP TOOTH	2EA
25	B802872	KOCHER RETRACTOR L:220MM 1 BLUNT TOOTH	2EA
26	B12000	SCALPEL HANDLE N° 3 STAINLESS STEEL	1EA
27	B110050	SCALPEL HANDLE N° 7 STAINLESS STEEL (PREVIOUSLY N° 5)	1EA
28	B86730	PRESTIGE DISSECTING FORCEPS WITH TEETH L:140MM FINE	1EA
29	B86735	PRESTIGE DISSECTING FORCEPS WITHOUT TEETH L:140MM FINE	1EA
30	B35008	MAYO LEXER SCISSORS CURVED L:160MM TUNGSTEN	1EA
31	B35060	METZEMBAUM-FINO SCISSORS CURVED L:180MM TUNGSTEN	1EA
32	B86350	PRESTIGE SCISSORS FINE SUPERCUT BLUNT NARROW AND CURVED L:140MM	1EA
33	DC71300-02	YANKAUER SUCTION TUBE L:300MM CURVED DIA:2.0MM	1EA
34	A902010	ANDREW-PYNCHON SUCTION CANNULA L:230MM D:10MM	2EA
35	B60604	O'SHAUGNESSY LIGATURE FORCEPS L:200MM LIGHT CURVED 90 °	2EA
36	B50695	CRILE FORCEPS CURVED WITHOUT TEETH L:160MM	5EA
37	B50690	CRILE FORCEPS CURVED WITHOUT TEETH L:140MM	10EA
38	B50445	MOSQUITO FORCEPS CURVED WITHOUT TEETH L:100MM	10EA
39	DC51160-23	CRILE WOOD N H L:230MM TC	2EA
40	DC51150-18	DE BAKEY N H L:180MM TC	2EA
41	G306300	TWISTING FORCEPS FOR HOOPING WIRE L:150MM JAWS TC	2EA
42	B70140	BACKAUSS FIXED TOWEL FORCEPS L:110MM	5EA
43	B70130	BACKAUSS FIXED TOWEL FORCEPS L:90MM	5EA
44	F10210	FOERSTER DRESSING FORCEPS STRAIGHT L:200MM	1EA
45	PPM-002	Crane Combo System	1SET
46	PPM-2000	PECTOSCOPE	1SET

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