

# **bSUTURING**

## **BASIC LAPAROSCOPIC SUTURING**

**02<sup>ND</sup> - 04<sup>TH</sup> APRIL, 2018**



UNIDADE  
RIO DE  
JANEIRO

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### **COURSE DIRECTOR**

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*Americas Medical City  
Rio de Janeiro, Brazil*

### **COURSE DIRECTOR**

**Paulo Bertulucci**

*Americas Medical City  
Rio de Janeiro, Brazil*

## **OBJECTIVES**

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- Perform basic practical and theoretical training of laparoscopic suture for beginner and experienced surgeons who perform or intend to perform laparoscopic surgery.

## **EDUCATIONAL METHODS**

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- Interactive theoretical and video sessions between faculty and course participants

## **FACULTY & TRAINER**

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- Daniela Balbino
- Douglas Furtado
- Dyego Benevenuto
- Fábio Madureira
- Gastão José
- José Ciongoli
- Leonardo de Castro
- Leonardo Ferraz
- Paulo Jiquiriça
- Roberto Marcellus

## FIRST DAY – 02<sup>nd</sup> April, 2018

07:45 – 08:00 (15 minutes)	Registration
08:00 – 08:10 (10 minutes)	Welcome to participants – Introduction of faculty members

### Theoretical Session

Chairmen: Fábio Madureira, Paulo Jiquiriça, Gastão José and José Ciongoli

08:10 – 08:30 (20 minutes)	1- History and Equipment needed for suture (needle-holder, needle-guard, trocars) VLP	<i>Croider Lacerda</i>
08:30 – 08:35 (5 minutes)	Discussion	
08:35 – 08:55 (20 minutes)	2- Selection of yarns and needles for VLP suture	<i>Paulo Jiquiriça</i>
08:55 – 09:00 (5 minutes)	Discussion	
09:00 – 09:20 (20 minutes)	3- Ergonomics for VLP suture	<i>Fábio Madureira</i>
09:20 – 09:25 (5 minutes)	Discussion	
09:25 – 09:55 (30 minutes)	4- Camera men techniques in VLP suture	<i>Croider Lacerda</i>
09:55 – 10:05 (10 minutes)	Discussion	
<b>10:05 – 10:25 (20 minutes) Coffee Break</b>		
10:25 - 10:45 (20 minutes)	5- Introduction, Loading the needle and with drawal of the needle from the VLP cavity	<i>Dyego Benevenuto</i>
10:45 – 10:55 (10 minutes)	Discussion	
10:55 – 11:15 (20 minutes)	6- Geometry of intra-corporeal suture VLP	<i>Paulo Bertulucci</i>
11:15 – 11:25 (10 minutes)	Discussion	
11:25 – 11:45 (20 minutes)	7- Basic structure of the surgical knot	<i>Roberto Marcellus</i>
11:45 – 11:55 (10 minutes)	Discussion	
<b>12:00 – 13:00 (1 hour) Lunch</b>		

### 13:00 – 17:30 Experimental Laboratory – Blackbox - All faculty and trainers

Laboratory Coordinators: Croider Lacerda, Paulo Bertulucci and José Ciongoli

13:00 – 13:20 (20 minutes)	<b>Exercise 1 – Cognition 1</b> <b>Camera Man: Navigation</b>
13:20 – 13:30 (10 minutes)	<b>*Small class*</b> Review, tactics and tricks: Ergonomics and first assistants (“Camera Man”) with Dr. Paulo Bertulucci – in the Laboratory
13:30 – 13:50 (20 minutes)	<b>Exercise 2 - Cognition 2</b> <b>Passing of the needle through the Hooks Circuit</b>
13:50 – 14:00 (10 minutes)	<b>*Small class*</b> Review: Equipment for suture (needle holders, Grasper, Dissector, needles ...) with Team Storz (Dandara) & Dr. Paulo Bertulucci
14:00 – 14:20 (20 minutes)	<b>Exercise 3 – Cognition 3</b> <b>Passage of the needle and thread in the circuit of hooks</b>
14:20 – 14:30 (10 minutes)	<b>*Small class*</b> Review: Surgical thread, with Team Medtronic (Ana Paula Lima, Felipe Dias and Thiago Tavares) - in the Laboratory
14:30 – 15:00 (30 minutes)	<b>Exercise 4 - Needle Loading → Dancing needle technique, “pulling hair”, rotation technique, tissue help and adjust with thread</b>
15:00 – 15:10 (10 minutes)	<b>*Small class*</b> Review, tactics and tricks: Trocar needle insertion, Loading the needle and transfixation through tissue with Dr. Dyego Benevenuto – in the Laboratory
<b>15:10 – 15:30 (20 minutes) Coffee Break</b>	
15:30 – 15:50 (20 minutes)	<b>Exercise 5.1 – First Step</b> (Transfixation of the needle by the synthetic tissue)
15:50 – 16:10 (20 minutes)	<b>Exercise 5.2 – Second Step</b> (Double Transfixation)

16:10 – 16:30 (20 minutes)	<b>Exercise 5.3 – Third Step</b> (Clockwise and counterclockwise)
16:30 – 16:40 (10 minutes)	<b>*Small class*</b> Review, tactics and tricks: Transfixation of the needle by the synthetic tissue, with Dr. Dyego Benevenuto – at the Laboratory
16:40 – 17:00 (20 minutes)	<b>Exercise 5.4 – Fourth step</b> (##Challenge ## Parallel Transfixation)
17:00 – 17:30 (30 minutes)	<b>Exercise 5.5 – Forehand and Backhand</b>
<b>17:30</b>	<b>End of the Session</b>

## SECOND DAY – 03<sup>rd</sup> April, 2018

08:00 – 08:10 (10 minutes) Welcome

### Theoretical Session

Chairmen: Paulo Jiquiriça, Daniela Balbino, Roberto Marcellus and Leonardo Ferraz

08:10 – 08:30 (20 minutes)	6- The suturing in laparoscopy: Knots Classification and suturing Techniques	<i>José Ciongoli</i>
08:30 – 08:35 (5 minutes)	Discussion	
08:35 – 08:50 (15 minutes)	7- Intracorporeal Knot Tying ( <b>Gladiator</b> technique and <b>Smile</b> technique)	<i>Croider Lacerda</i>
08:50 – 08:55 (5 minutes)	Discussion	
08:55 - 09:10 (15 minutes)	8- Intracorporeal Knot Tying <b>Szabo</b> technique (C- Loop)	<i>Paulo Bertulucci</i>
09:10 – 09:15 (5 minutes)	Discussion	
09:15 – 09:30 (15 minutes)	9- Intracorporeal Knot Tying ( <b>D - Loop</b> )	<i>Dyego Benevenuto</i>
09:30 – 09:35 (5 minutes)	Discussion	
09:35 – 09:50 (15 minutes)	9- Common mistakes made in intracorporeal suturing	<i>Paulo Bertulucci</i>
09:50 – 09:55 (5 minutes)	Discussion	
<b>10:00 – 10:20 (20 minutes)</b>		<b>Coffee Break</b>

### 10:30 - 12:30 Experimental Laboratory – Laparoscopic training box - All faculty and trainers

Laboratory Coordinators: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto

10:30 – 11:30 (1 hour)	<b>Exercise 6: Intracorporeal Knot Tying</b> (Gladiator technique and Gladiator's Smile)	
11:30 – 11:45 (15 minutes)	<b>*Small class*</b> Review and taking doubt laparoscopic intracorporeal Gladiator and Smile techniques with Dr. <i>Croider Lacerda in the laboratory (Training Box)</i>	
11:45 – 12:30 (45 minutes)	<b>Exercise 6: Intracorporeal Knot Tying</b> (Gladiator technique and Gladiator's Smile)	
<b>12:30 – 13:30 (1 hour)</b>		<b>Lunch</b>

## 13:30 – 15:30 Experimental Laboratory - Laparoscopic training box - All faculty and trainers

Laboratory Coordinators: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto

13:30 – 14:30 (1 Hour)	<b>Exercise 7: Intracorporeal Knot Tying</b> (D – Loop formation and Smile)
14:30 – 14:45 (15 minutes)	<b>*Small class*</b> Review and taking doubt laparoscopic intracorporeal D-Loop with <i>Dr. Paulo Bertulucci – In the Laboratory (Training Box)</i>
14:45 – 15:30 (45 minutes)	<b>Exercise 7: Intracorporeal Knot Tying</b> (D – Loop formation and Smile)
<b>15:30 – 15:50 (20 minutes)</b>	<b>Coffee Break</b>

## 15:50 – 17:30 Experimental Laboratory - Laparoscopic training box - All faculty and trainers

Laboratory Coordinators: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto

15:50 – 16:40 (50 minutes)	<b>Exercise 8: Intracorporeal Knot Tying</b> (C – Loop formation and Smile)
16:40 – 16:50 (10 minutes)	<b>*Small class*</b> Review and taking doubt laparoscopic intracorporeal C-Loop techniques with <i>Dr. Dyego Benevenuto - In the Laboratory (Training box)</i>
16:50 – 17:30 (40 minutes)	<b>Exercise 8: Intracorporeal Knot Tying</b> (C – Loop formation and Smile)
<b>17:30</b>	<b>End of the Session</b>

## THIRD DAY – 04<sup>th</sup> April, 2018

08:00 – 08:10 (10 minutes) | Welcome

### Theoretical Session

Chairmen: Fábio Madureira, Douglas Furtado, Paulo Jiquiriça and Gastão José

08:10 – 08:30 (20 minutes)	10- Continuous Suturing	<i>Leonardo de Castro</i>
08:30 – 08:35 (5 minutes)	Discussion	
08:35 – 08:55 (20 minutes)	11- Suturing at difficult angles	<i>Dyego Benevenuto</i>
08:55 – 09:00 (5 minutes)	Discussion	
09:00 – 09:20 (20 minutes)	12- Complication in laparoscopic suturing	<i>José Ciongoli</i>
09:20 – 09:25 (5 minutes)	Discussion	
09:25 – 09:45 (20 minutes)	13- Extracorporeal Knot Tying	<i>Fábio Madureira</i>
09:45 – 09:50 (5 minutes)	Discussion	
<b>10:00 – 10:20 (20 minutes)</b>	<b>Coffee Break</b>	

## 10:00 – 12:30 Experimental Laboratory - Blackbox - All faculty and trainers

Laboratory Coordinators: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto

	<b>Exercises of continuous suturing</b>
10:00 – 10:20 (20 minutes)	<b>Exercise 9.1</b> – Traction and grip
10:20 – 10:30 (10 minutes)	<b>Exercise 9.2</b> – Schimieden’s or Bell’s continuous suturing
10:30 – 10:40 (10 minutes)	<b>*Small class*</b> Review and taking doubt laparoscopic intracorporeal continuous suturing with Leonardo Castro – <i>In the Laboratory – (Training Box)</i>
10:40 – 11:00 (20 minutes)	<b>Exercise 9.3</b> – Cushing’s continuous suturing
11:00 – 11:10 (10 minutes)	<b>Exercise 9.4</b> – Continuous suturing with V-Loc

11:10 – 11:20 (10 minutes)	<b>*Small class*</b> Review and taking doubt laparoscopic intracorporeal continuous suturing with V-Loc, Dr. Paulo Bertulucci – In the Laboratory – (Training box)
11:20 – 11:40 (20 minutes)	<b>Exercise 9.5</b> – Continuous suturing with traction of the assistant surgeon
11:40 – 12:00 (20 minutes)	<b>Exercise 11</b> – Simple continuous Suturing (Kurschener’s suturing)
12:00 – 12:50 (50 minutes)	<b>Exercise 10 – Exercises of suture at difficult angles</b>
12:50 – 13:00 (10 minutes)	<b>*Small class*</b> Review and taking doubt laparoscopic intracorporeal difficult angles with Diego Benevenuto – In the Laboratory – (Training Box)
<b>13:00 – 14:00 (1 hour) Lunch</b>	

## 14:00 – 17:00 Experimental Laboratory – Blackbox - All faculty and trainers

Laboratory Coordinators: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto

14:00 – 14:30 (30 minutes)	<b>Exercise 6</b> – Extracorporeal Knot Tying
14:30 – 15:00 (30 minutes)	<b>Exercise 7</b> – Gladiator’s and Smile’s technique
15:00 – 15:30 (30 minutes)	<b>Exercise 8</b> – C-Lopp formation and D-Lop formation
15:30 – 16:00 (30 minutes)	<b>Exercise 11</b> – Simple continuous suturing (Kurschner’s suturing)
16:00 – 16:30 (30 minutes)	<b>Exercise 12</b> – Purse String Suturing
<b>16:30 End of the course</b>	