

**IBUS - Update in Breast Imaging, Interventions, Management**  
A practical course with hands-on ultrasound workshops

**Tel Aviv 2018, Programme – Day 1**

<b>08.30</b>	Welcoming remarks	E Durante, O Olsha
<b>08.40</b>	Ultrasound physics and image optimization	J C Bamber
<b>09.00</b>	Breast carcinoma: The sick lobe concept	E Durante
<b>09.30</b>	Evolution of ultrasound imaging systems	A Mundinger
<b>10.00</b>	Breast US: Clinical indications and selection of cases	E A M O’Flynn
<b>10.30</b>	<i>Coffee break</i>	
<b>11.00</b>	Lobar ultrasound anatomy of the breast	E Durante
<b>11.30</b>	Sonographic appearance of benign lesions	E Aribal
<b>12.00</b>	Sonographic appearance of malignant lesions	A Mundinger
<b>12.40</b>	Discussion session	
<b>13.20</b>	<i>Lunch</i>	
<b>14.00</b>	Demonstration session - scanning the breast and axilla	E Aribal
<b>14.30</b>	Principles of interventional techniques	D Koufoudakis
<b>15.00</b>	Video session – Ultrasound guided interventions	D Koufoudakis
<b>15.15</b>	Video session – Ultrasound guided surgery	E Durante D Koufoudakis
<b>15.30</b>	<i>Coffee break</i>	
<b>16.15-16.45, 16.45-17.15, 17.15-18.00.</b>	<b>“Hands-on” workshops 1, 2, and 3</b>	<b>Faculty</b>
	<ul style="list-style-type: none"><li>• Scanning techniques of the breast and axilla<ul style="list-style-type: none"><li>• Equipment optimization</li><li>• Core biopsy on phantoms<ul style="list-style-type: none"><li>• Ultrasound guided vacuum assisted biopsy on phantoms</li><li>• Breast elastography on phantoms</li><li>• Ultrasound guided surgery on phantoms</li><li>• Automated Breast Ultrasound</li></ul></li></ul></li></ul>	



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**Tel Aviv 2018, Programme – Day 2**

<b>08.30</b>	Daily review	O Olsha
<b>08.40</b>	Digital breast tomosynthesis - Contrast-enhanced digital mammography	A Munding
<b>09.10</b>	The present role of breast MRI	E A M O’Flynn
<b>09.40</b>	Doppler and elastography physics	J C Bamber
<b>10.10</b>	Ultrasound imaging assessment of symptomatic patients	F K W Schaefer
<b>10.40</b>	<i>Coffee break</i>	
<b>11.00</b>	Video session: Stereotactic breast Biopsy	D Koufoudakis
<b>11.30</b>	Vacuum assisted biopsy: techniques and indications	F K W Schaefer
<b>12.00</b>	Emerging breast imaging techniques	E A M O’Flynn
<b>12.30</b>	Preoperative loco-regional ultrasound staging	E Durante
<b>13.00</b>	<i>Lunch</i>	
<b>14.00</b>	Automated breast ultrasound (ABUS)	A Munding
<b>14.30</b>	Ultrasound visible clips in breast cancer surgery	M Carmon
<b>15.00</b>	Multidisciplinary breast imaging and radiological-pathological correlations - Panel 1 Chair: O Olsha Panellists: E Aribal, E Durante, E A M O’Flynn, F K W Schaefer	
<b>16.00</b>	<i>Coffee break</i>	
<b>16.45-17.15, 17.15-17.45, 17.45-18.30.</b>	<b>“Hands-on” workshops 4, 5, and 6</b>	<b>Faculty</b>
	<ul style="list-style-type: none"><li>• Scanning techniques of the breast and axilla<ul style="list-style-type: none"><li>• Equipment optimization<ul style="list-style-type: none"><li>• Core biopsy on phantoms<ul style="list-style-type: none"><li>• Ultrasound guided vacuum assisted biopsy on phantoms</li><li>• Breast elastography on phantoms<ul style="list-style-type: none"><li>• Ultrasound guided surgery on phantoms<ul style="list-style-type: none"><li>• Automated Breast Ultrasound</li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>	



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**Tel Aviv 2018, Programme – Day 3**

<b>08.30</b>	Daily review	O Olsha
<b>08.40</b>	State of the art – Breast elastography	F K W Schaefer
<b>09.10</b>	Breast MRI at 3T and MRI guided interventional procedures	E A M O’Flynn
<b>09.40</b>	The male breast	E Aribal
<b>10.10</b>	<i>Coffee break</i>	
<b>10.30</b>	Does ultrasound have a role in dense breast screening?	Y Adler-Levy
<b>11.00</b>	Preoperative ultrasound planning of surgical procedures	E Durante
<b>11.30</b>	Intraoperative ultrasound and specimen management	O Olsha
<b>12.00</b>	Reporting breast ultrasound examination - Panel 2 Chair: F K W Schaefer Panellists: Y Adler-Levy, E Aribal, A Mundinger, E A M O’Flynn	
<b>13.00</b>	<i>Lunch</i>	
<b>13.30</b>	Breast imaging in the setting of neoadjuvant chemotherapy	E Aribal
<b>14.00</b>	Imaging follow-up after breast conserving surgery and mastectomy	D Gekhtman
<b>14.30</b>	Imaging of the residual breast after mastectomy	T. Hadar
<b>15.00</b>	The clinician’s need from the breast imaging specialist: Interactive session - Panel 3 Chair: O Olsha Panellists: E Aribal, E Durante, D Koufoudakis, F K W Schaefer	
<b>15.50</b>	CME Test	
<b>16.30</b>	Final Remarks	E Durante, O Olsha
<b>16.45</b>	<i>Coffee Break</i>	
<b>17.30-18.00, 18.00-18.30, 18.30 -19.00.</b>	<b>“Hands-on” workshops 7, 8, and 9</b>	<b>Faculty</b>
	<ul style="list-style-type: none"><li>• Scanning techniques of the breast and axilla<ul style="list-style-type: none"><li>• Equipment optimization</li><li>• Core biopsy on phantoms<ul style="list-style-type: none"><li>• Ultrasound guided vacuum assisted biopsy on phantoms</li><li>• Breast elastography on phantoms</li><li>• Ultrasound guided surgery on phantoms</li><li>• Automated Breast Ultrasound</li></ul></li></ul></li></ul>	

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*Course Convenors*

**D. Koufoudakis (Greece), O. Olsha (Israel), A. Mundinger (Germany), E. Durante (Italy)**