

Getting started with PoCUS

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Kevin Fairbairn

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THE UNIVERSITY OF BRITISH COLUMBIA

Continuing Professional Development

Faculty of Medicine

LAND ACKNOWLEDGMENT

We acknowledge that we work on the traditional, ancestral and unceded territory of the Ktunaxa, Syilx, and Sinixt Nations.



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PRESENTER DISCLOSURES

Example

Name: Virginia Robinson

Relationships with commercial interests:

- Medical HOUSE OB Lead UBC
- RCCbc POCUS Lead



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PRESENTER DISCLOSURES

Example

Name: Kevin Fairbairn

Relationships with commercial interests:

- Medical Lead HOUSE UBC CPD



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MITIGATION OF BIAS

- All content developed as part of this program was reviewed for potential bias by the members of the program planning committee.
- Relationships do not affect my choices in developing content.



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LEARNING OBJECTIVES

- Recognize different types of handheld ultrasound.
- Describe cost and subscription differences between devices.
- Demonstrate the vast array of applications for which ultrasound can be used in the office.
- Decide how the different types of ultrasound may fit into your practice.



POLL QUESTION

How often are you using POCUS

- A) Never use it
- B) A couple of times a month for one or two applications
- C) Once or twice a week for a variety of applications
- D) Every day , for many reasons.



HANDHELDS

Chip vs Crystal

Wireless vs Wire...full

Price points

Subscription

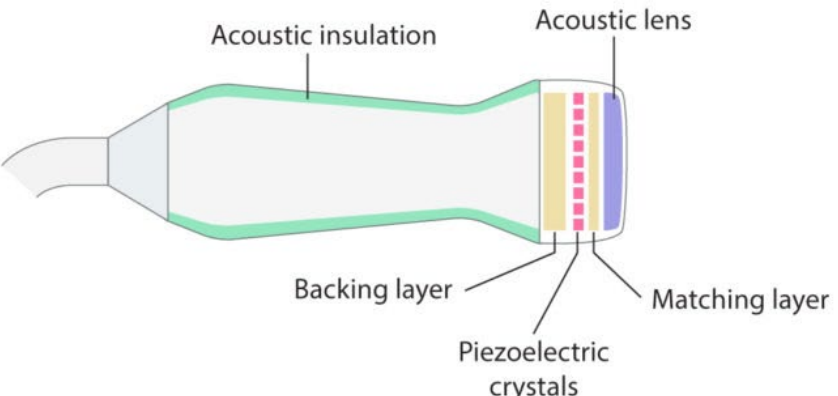


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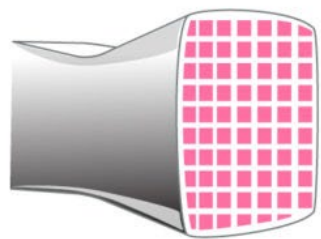
HANDHELDS

The ultrasound transducer

The ultrasound transducer from the side and front.



Crystal

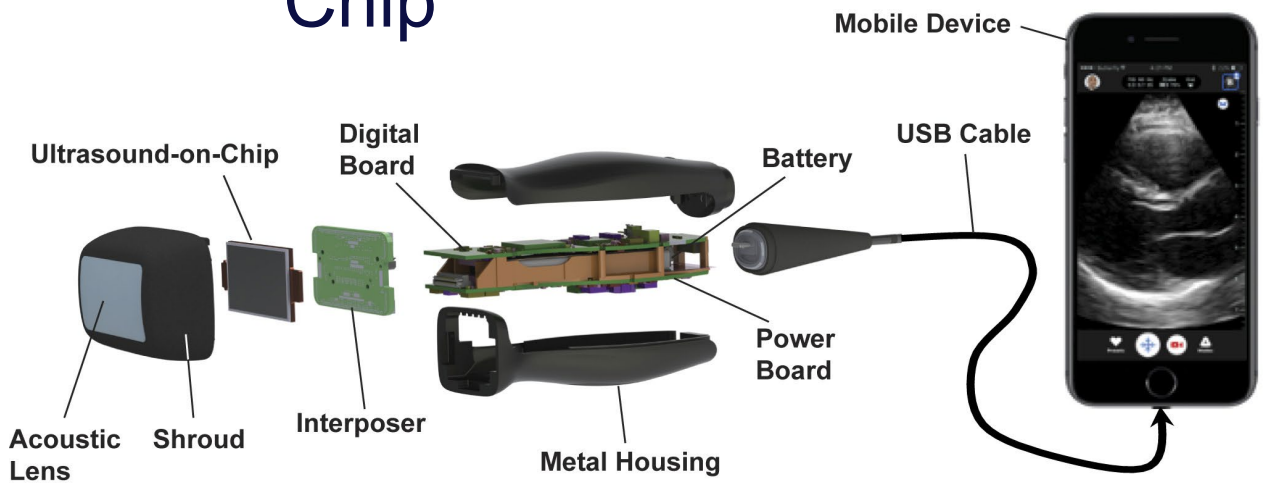


Arrangement of piezoelectric crystals



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Chip



HANDHELDS



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HANDHELDS

Phillips Lumify

Butterfly

Clarius

GE Vscan

Exo Iris

Mindray TE Air



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PHILIPS



\$6,995

Butterfly



\$4,030

+ \$440/yr

Or \$600/yr

clarius ultrasound anywhere



\$4,750

+785/yr

\$7,200

dual probe



\$ 6,500

dual
probe

ExoIris™



\$4,550

mindray™



\$6,800

HANDHELDS - PHILIPS LUMIFY

PHILIPS



Cost: \$6,995

Subscription: \$?

HANDHELDS- BUTTERFLY



Cost: \$ 4,030

IQ3: \$ 5,299

Subscription: \$ 440/yr or \$600/yr depending on features you wish to use

HANDHELDS -CLARIUS



Cost: \$4,750 for single probe

\$7,200 for PAL = Dual probe

Subscription: \$785/yr

HANDHELDS - GE V SCAN



Cost: \$6,500

Subscription: \$~500/yr



HANDHELDS - EXO IRIS

Exo Iris™



Cost: \$4,550



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HANDHELDS - MINDRAY TE AIR

mindrayTM



Cost: \$6,800



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HANDHELDS - DEMO



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POCUS AS GOOD... OR BETTER THAN X-RAY OR CT!

- ▶ OB Ultrasound:
 - ▶ Breech presentation
 - ▶ Ectopic pregnancy



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POCUS AS GOOD... OR BETTER THAN X-RAY OR CT!

- ▶ Pneumonia
- ▶ Pleural Effusion
- ▶ Congestive Heart Failure
- ▶ Retinal Detachment
- ▶ Necrotizing Fasciitis



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AND THERE'S MORE

- ▶ Ascites
- ▶ Fractures
- ▶ Superficial Phlebitis
- ▶ Pericardial Fluid
- ▶ AAA



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12.7 cm

SUPPORT

Need help with a PoCUS scan in real time? Consider

RTVS: (<https://rccbc.ca/rtvs/>)



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RTVS QUICK REPLY PATHWAY: M-F, 9-5 PST



Our POCUS experts



Dr. Virginia Robinson



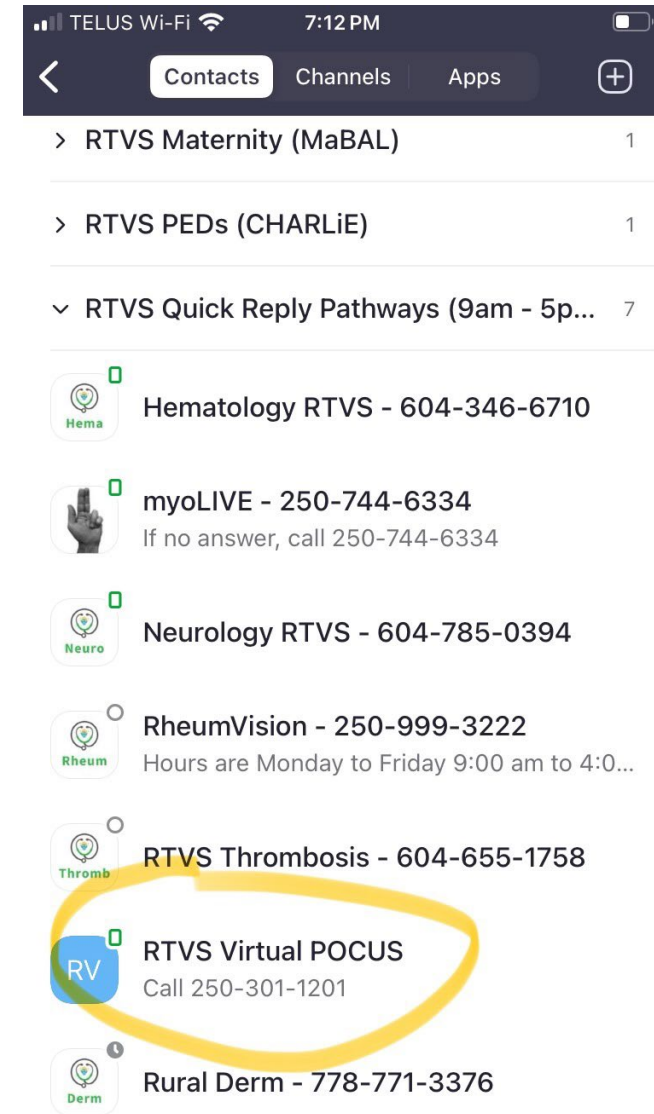
New Quick Reply Pathway

Rural providers who use Point of Care Ultrasound (POCUS) will have access to a new Quick Reply pathway. The RTVS POCUS pathway will be available weekdays during regular business hours for healthcare providers in rural, remote and Indigenous communities. Simply call the RTVS vMOA and they will connect you with a provider.

Our POCUS experts can help with:

- MSK ultrasound
- Obstetrics
- Abdominal
- DVT
- Basic POCUS cardiology (echo)
- and more!

Phone the RTVS Front Door at 236-305-9302 or add Zoom contact: virtual_moa@rtvs-bc.ca



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EDUCATION - COURSES

HOUSE (<https://house.ubccpd.ca/>)



EDE (<https://edecourse.com/>)

EDE)))

INJECTIONS (<https://sportsmedus.com/>)



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EDUCATION - ACCREDITATION

CPoCUS (<https://cpocus.ca/>)



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EDUCATION - LONGITUDINAL

CAMP (<https://ubccpd.ca/camp>)

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Rural Ultrasound Fellowship (<https://ruralultrasound.ca/>)

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EDUCATION

Rural Ultrasound Rounds (<https://ubccpd.ca/rural-pocus-rounds>)

Sonnie MD

(<https://elearning.ubccpd.ca/enrol/index.php?id=368>)

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RESOURCES

BC PoCUS

BC Point of Care Ultrasound

BC POCUS (UBC CPD developed) <https://www.bcpocus.ca/>

Core Ultrasound <https://www.coreultrasound.com/5ms/>

Ultrasound G.E.L. <https://www.ultrasoundgel.org/>

PoCUS Atlas <https://www.thepocusatlas.com/>

PoCUS 101 <https://www.pocus101.com/>

App:

Western Sono



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RESOURCES

UBC CPD Handheld Loan Program:

cpd.house@ubc.ca



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Q&A

POST YOUR QUESTIONS IN THE CHATBOX



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RESOURCES & REFERENCES MENTIONED

- <https://www.philips.ca/healthcare/sites/lumify>
- <https://www.butterflynetwork.com/int/en-ca/?srsId=AfmBOoqdbRWok0Lx1MXYUkxuwKJW2rkToOhfH6ZqqQVs2zlgll9KSuau>
- <https://clarius.com/>
- <https://www.gehealthcare.ca/en-ca/products/ultrasound/handheld-ultrasound>
- <https://www.exo.inc/>
- <https://www.mindray.com/en/products/ultrasound/point-of-care/te-air>
- <https://bomimed.ca/product/mindray-te-air-handheld-ultrasound-system/>
- <https://ecgwaves.com/topic/the-ultrasound-transmitter-probe/>
- <https://www.pnas.org/doi/10.1073/pnas.2019339118>
- https://mashable.com/article/how-to-clean-up-cord-clutter?test_uid=01il2GpryXngy77ulpA3Y4B&test_variant=b



RESOURCES & REFERENCES MENTIONED

- <https://rccbc.ca/initiatives/rtvs/rudi/>
- <https://house.ubccpd.ca/>
- <https://edecourse.com/>
- <https://cpocus.ca/>
- <https://ubccpd.ca/learn/learning-activities/course?eventtemplate=91-coaching-and-mentoring-program-camp>
- <https://ubccpd.ca/learn/learning-activities/course?eventtemplate=2-sonnie-your-ultrasound-partner>
- <https://ruralultrasound.ca/>
- <https://ubccpd.ca/rural-pocus-rounds>



RESOURCES & REFERENCES MENTIONED

- <https://www.bcpocus.ca/>
- <https://coreultrasound.com/>
- <https://www.pocus101.com/>
- <https://www.ultrasoundgel.org/>
- <https://www.thepocusatlas.com/>
- <https://westernsono.ca/>



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