Allergies & Essure
Real-world Challenges

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Medical Device Problems
DISCLOSURES

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Not a litigant or witness

No financial conflicts of interest
How did we get here?

“...there was no criteria per se in the studies to identify or to say this is an allergic reaction. So we also do not have that.”[1]
NEW-ONSET METAL ALLERGIES

- SOD2 rs4880 (AG): variant (G) Multiple Chemical Sensitivity [2,3]
- MTHFR A1298C rs1801131 (GT): variant (G) hypersensitivity to Hg
- PON1 rs662 (TT): variant (T) [4]
- MTHFR C677T rs1801133 (GA): variant (A) migraine with aura [5]
- CYP2R1 rs10741657 (AG): allele (G) Vitamin D insufficiency
- CYP2R1 rs12794714 (AG) [6]

NEW-ONSET FOOD ALLERGIES

- MY PERSONAL DATA
- CYP2R1 rs10741657 (AG): allele (G) Vitamin D insufficiency
- MTHFR C677T rs1801133 (GA): variant (A) migraine with aura [5]
- PON1 rs5662 (TT): variant (T) [4]
- MTHFR AT28C rs1801133 (GT): variant (G) hyper-sensitivity to Hg
- SOD2 rs4880 (AG): variant (G) Multiple Chemical Sensitivity [2,3]
Essure Adverse Events*

- **14,471** auto-immune[7]
- **7,293** migrations/perforations
- **7,401** migraines[8,9]
- **6,581** allergy
- **5,774** skin symptoms[10,11]
- **1,966** endometriosis[12]
- **845** vitamin D deficiency[13]
- **223** hormonal imbalance[14]
- **120** multiple allergies
- **40** anaphylaxis
- **7** tattoo site dermatitis[15]

*data courtesy of Device Events™*
Physician Hurdles

- Poor labeling
- Poor communication
- Disparate health systems
- Poor access to AE data
- Constellation of symptoms
- Limitations of tests
- Costs to patient/insurance

“...it ends up being an exclusion at the end of the day, that you just rule out what it is and what might be the cause...”\(^1\)
We can do better!

Genetic Tests
- FLG\textsuperscript{[16]}
- TLR5
- TLR4\textsuperscript{[17]}
- SOD
- HLA\textsuperscript{[18]}
- MTHFR

Allergy Tests
- LTT or LPT
- IgE Tests
- Patch Tests

Blood Tests
- Vitamin D
- Estrogen/Hormone
- Cytokine Panels \textsuperscript{[19]}

Communication
- Medical history
- Plain language
- Better records

1. Tools
2. Expertise
3. Will
REFERENCES


