



The Faces of Ukraine

Reconstructive Surgery for Wartime Facial Trauma

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Disclosures

PI: SatraGo 2 Study (Genentech/Roche)

Please refrain from taking photographs that include patient images.



Casualties in Ukraine since Russian Invasion

- Ukrainian military: 80K killed, 400K injured (*WSJ*)
- Civilians: 13K killed, 34K injured (*UN*)
- Up to 40% facial injuries in combat*: >160,000
 - Ukrainian health care system not equipped to treat
 - Paucity of subspecialty trained surgeons
 - Many injuries sent to neighboring countries for surgery

*Rustmeyer J et al. *Br J Oral Maxillofac Surg* 2007;45:556-560

*Wade AL et al. *J Trauma* 2007;63:836-840.

Face the Future Foundation

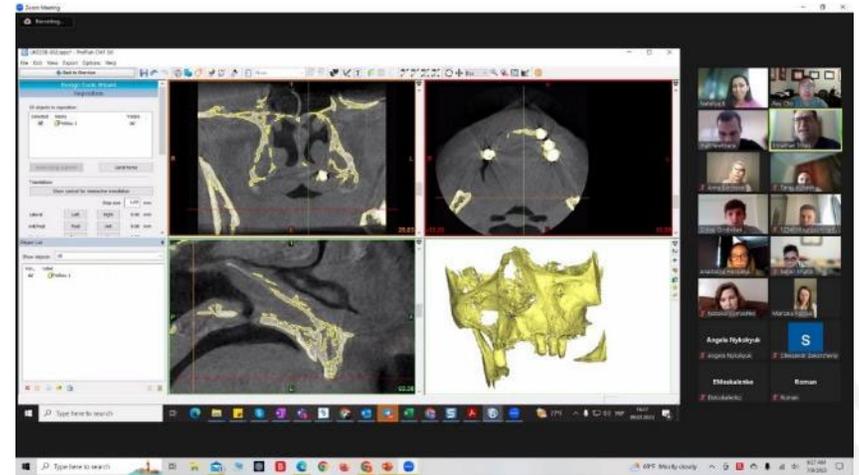
- Nonprofit based in Toronto
 - Founded by Peter Adamson in 1996
- Performs facial plastic surgery worldwide
 - 60+ missions in Africa and Asia
 - 6 missions to Ukraine (Mar 23 – Oct 25)
- Partnership with Razom for Ukraine



<https://www.facethefuturefoundation.ca/>
<https://www.razomforukraine.org/>

Pre-Mission Planning

- Begins ~6 months in advance
- Travel/logistics
 - Instruments, sutures, implants
- Coordination with host
- Surgical case planning
 - Google drive w/ patient photos, CT scans
 - Weekly Zoom meetings 3 months in advance
 - Patient-specific implants (provided by Materialise)





March 2023



October 2023



October 2024



October 2025

13-20 member teams

- 5-6 surgeons
 - FPRS
 - Oto/HNS oncology
 - OPRS
 - Plastics
 - OMFS
- 1-2 anesthesiologists
- 4-9 nurses
- 1 mission director
- 1 photographer
- 1 coordinator

11-day Itinerary

- *Th-F*: Fly to Poland
- *Sat*: Drive to I-F
- *Sun*: Conference
- *M*: Clinic
- *Tue-F*: Surgery
- *Sat*: Drive to Poland
- *Sun*: Fly home







OR 1



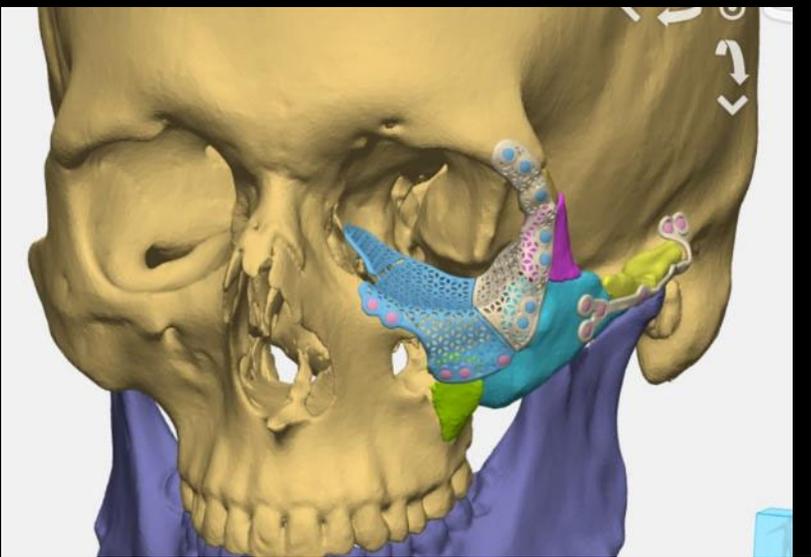
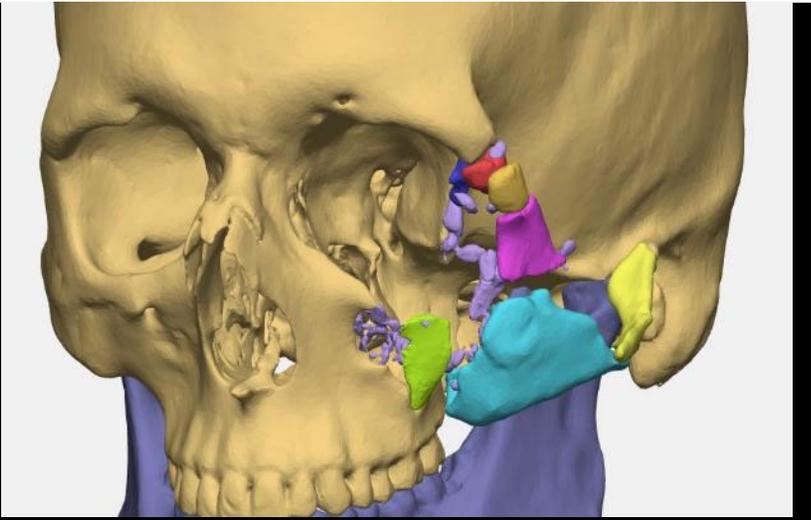
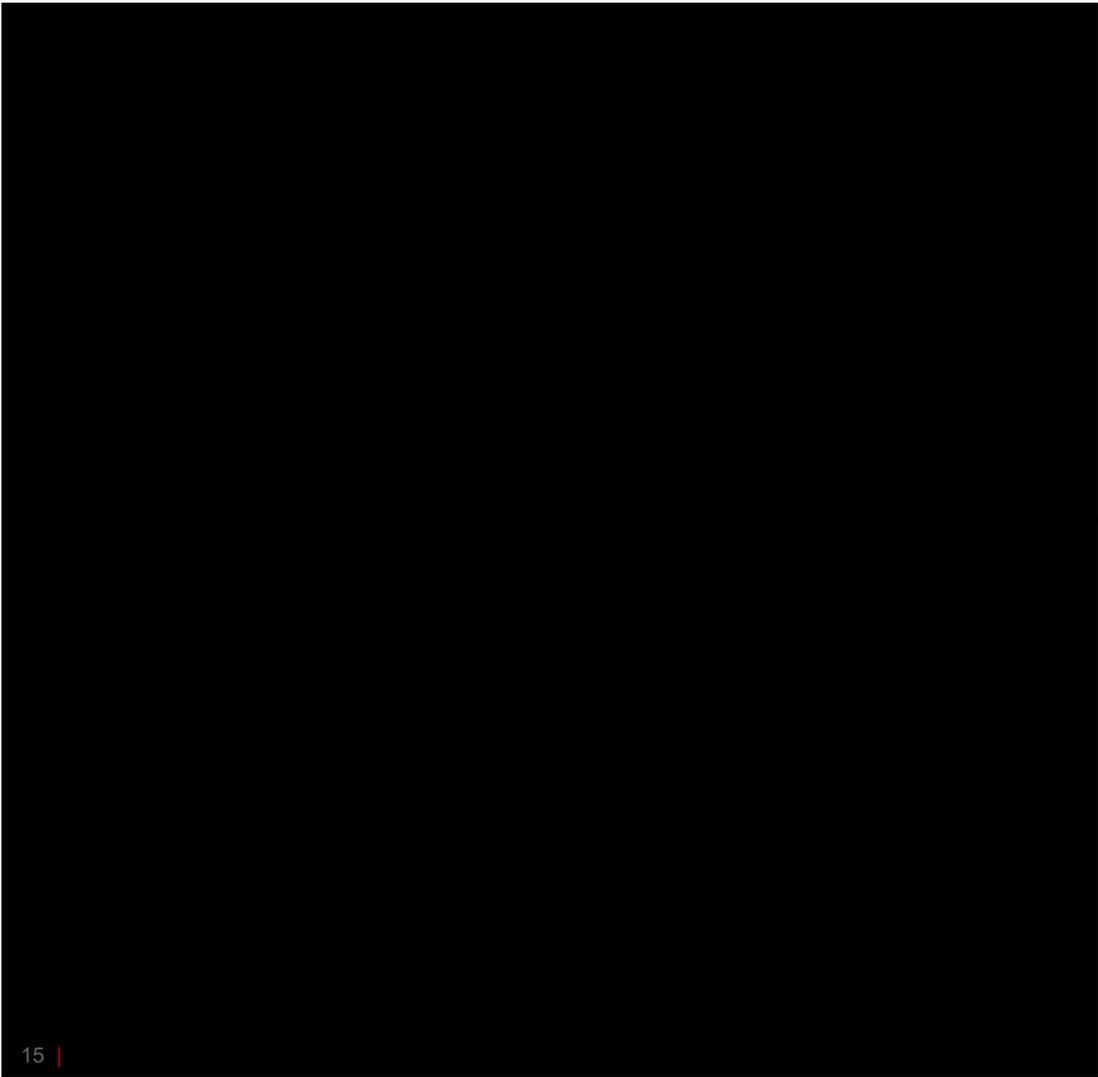
OR 2

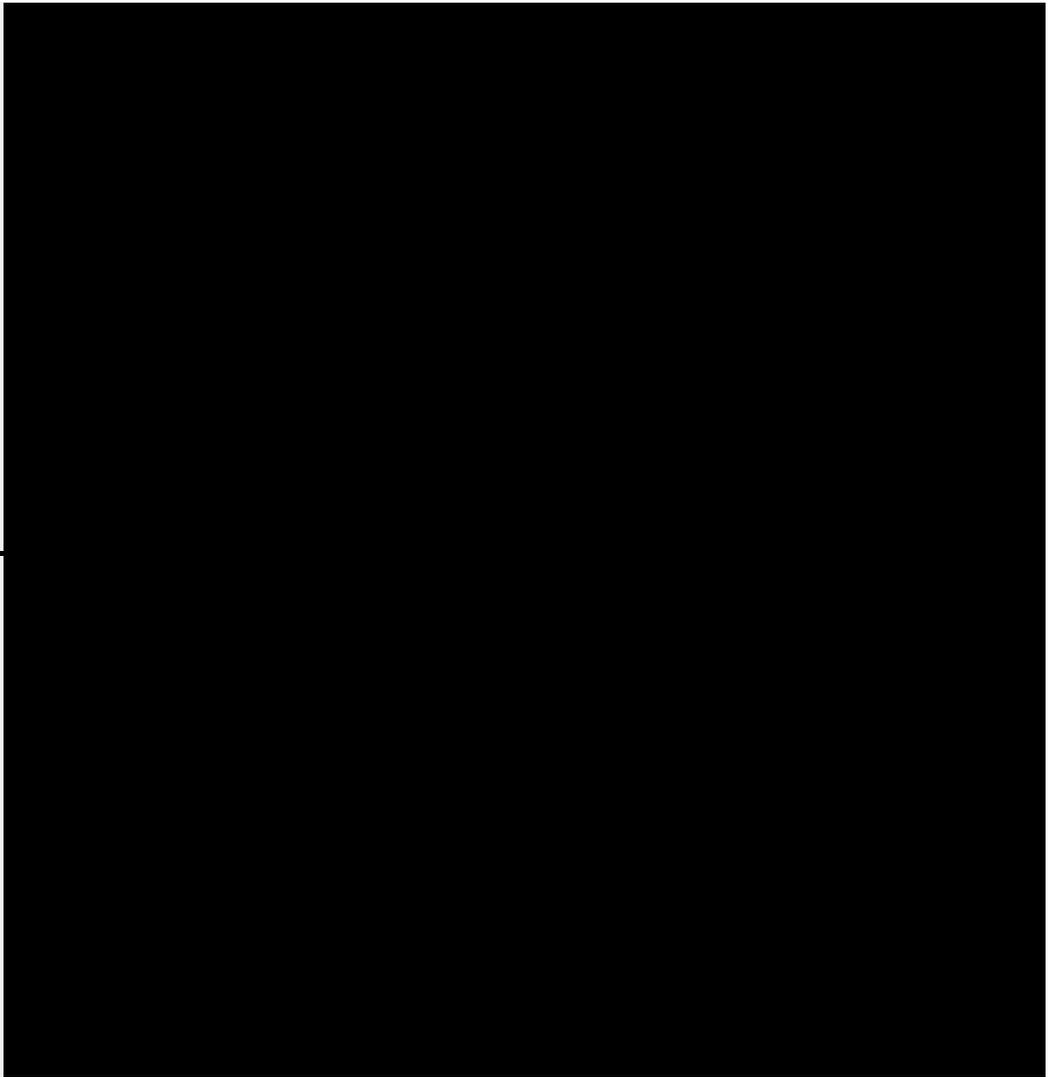
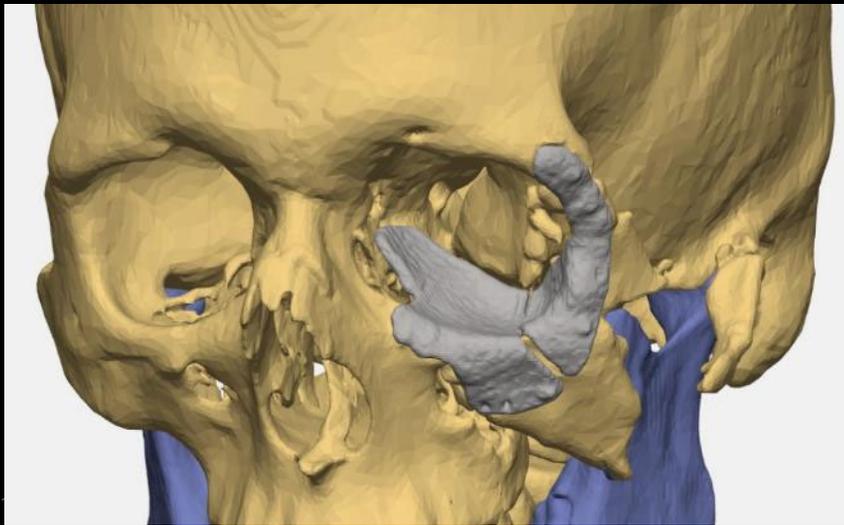
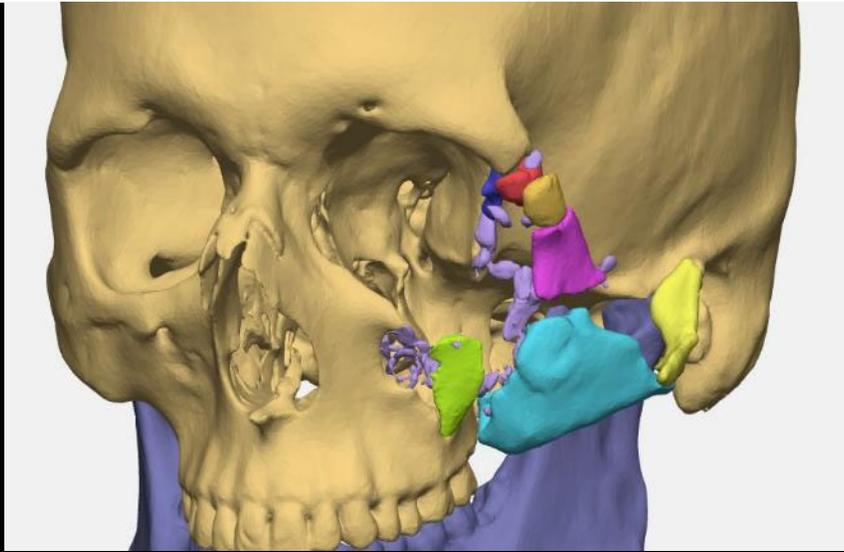


125 total cases: *59 oculoplastic/orbit*

- Orbit
 - Blowout fractures
 - ZMC fractures
 - Maxillary fractures
 - Transnasal wiring
 - Enophthalmos wedges
 - Orbital tumor biopsy
- Lid
 - Hughes flaps
 - Skin grafts
 - Ectropion repairs
 - Entropion repair
 - Retraction repairs
 - Lateral canthopexies
 - Wedge resections
 - Lid weights
 - Ankyloblepharon repairs
 - Festoon excision
- Face
 - Midface lifts
 - Cervicofacial flaps
 - Browplasties
 - Z-plasties
- Lacrimal
 - DCR's
 - CDCR

160+ total procedures

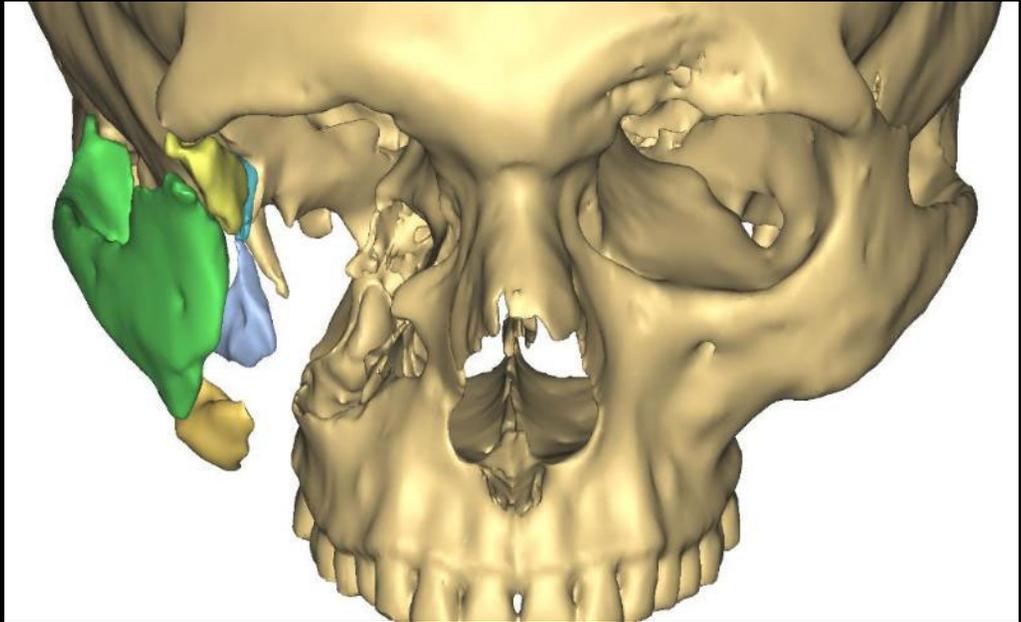


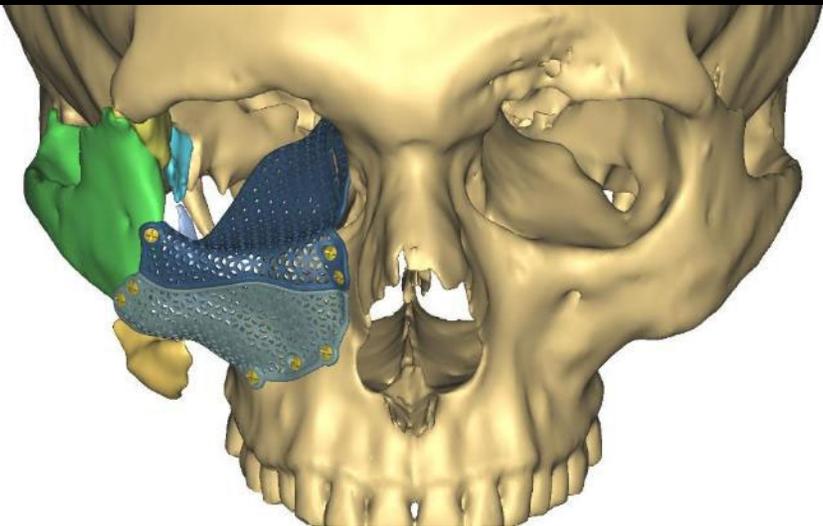
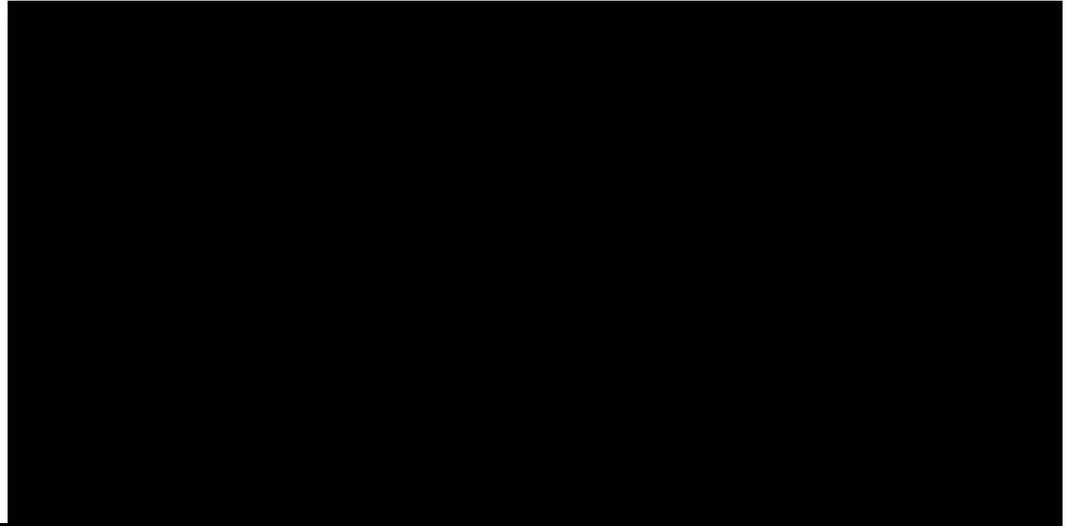
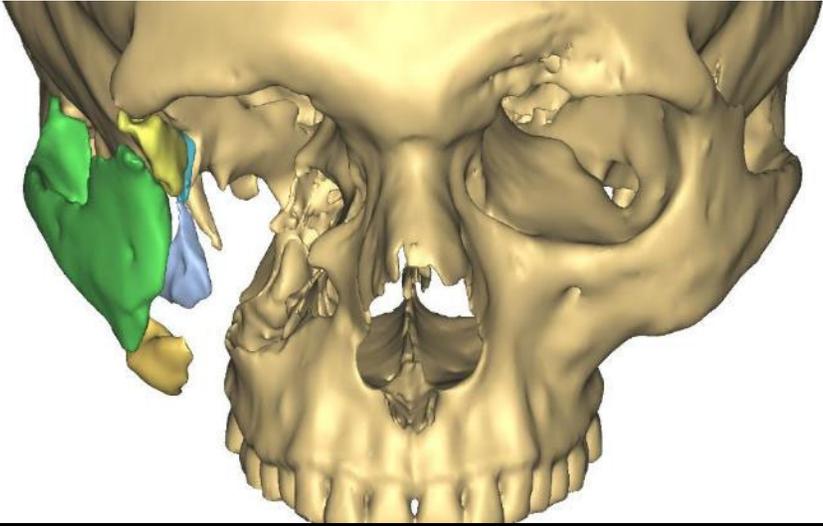


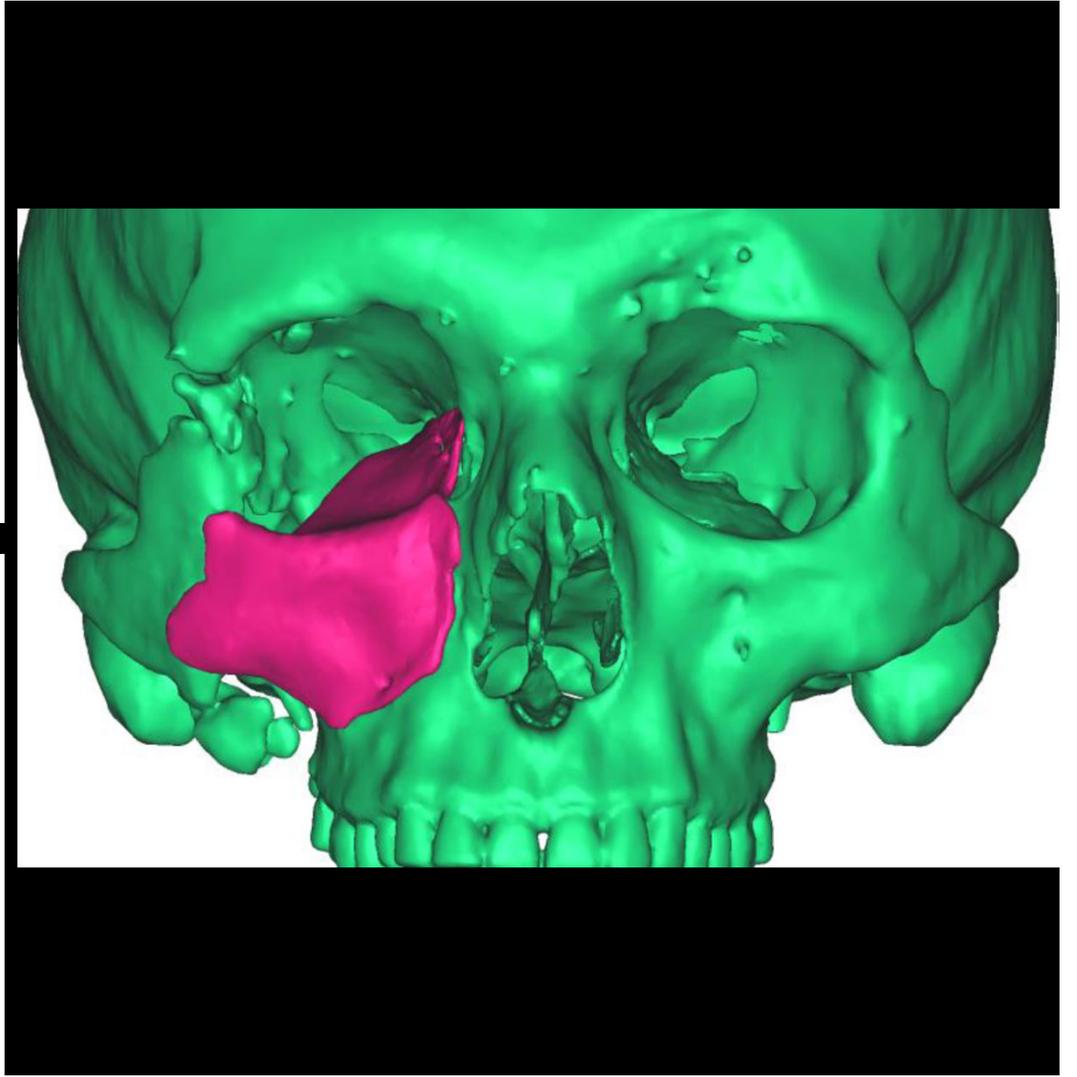
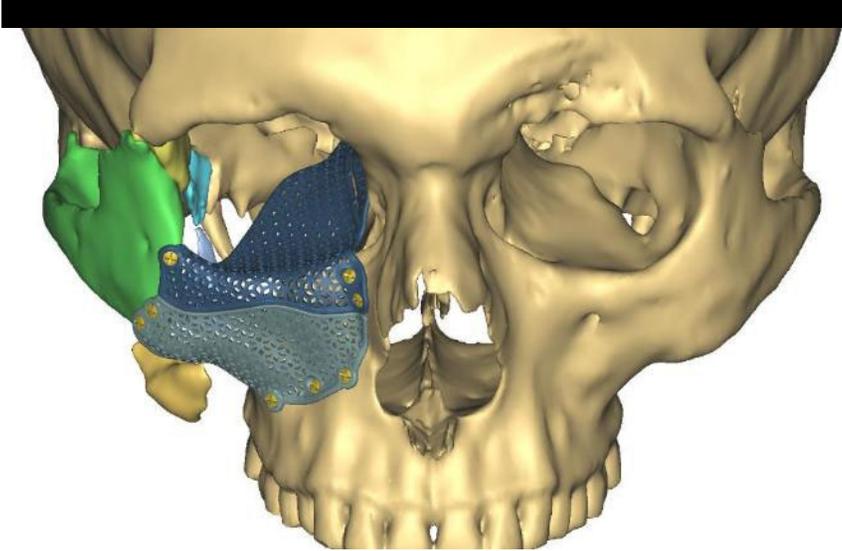
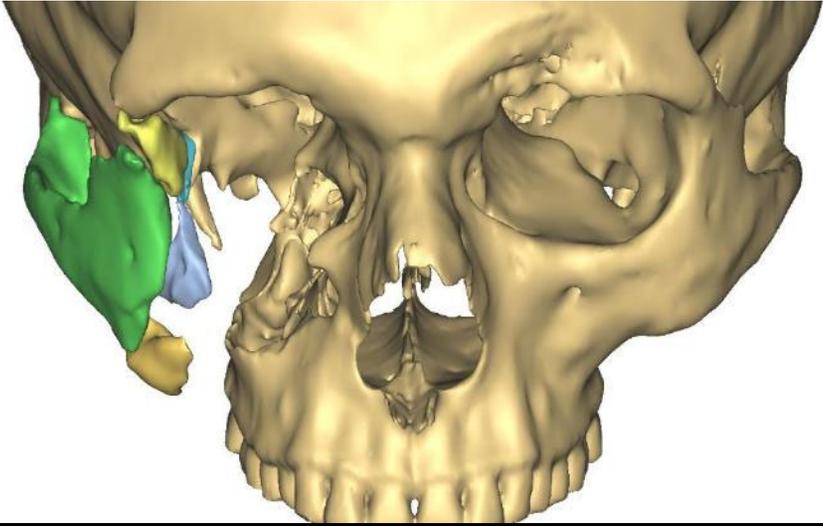
Stage 1: ORIF ZMC, LLL Hughes flap reconstruction

Stage 2: Hughes flap takedown

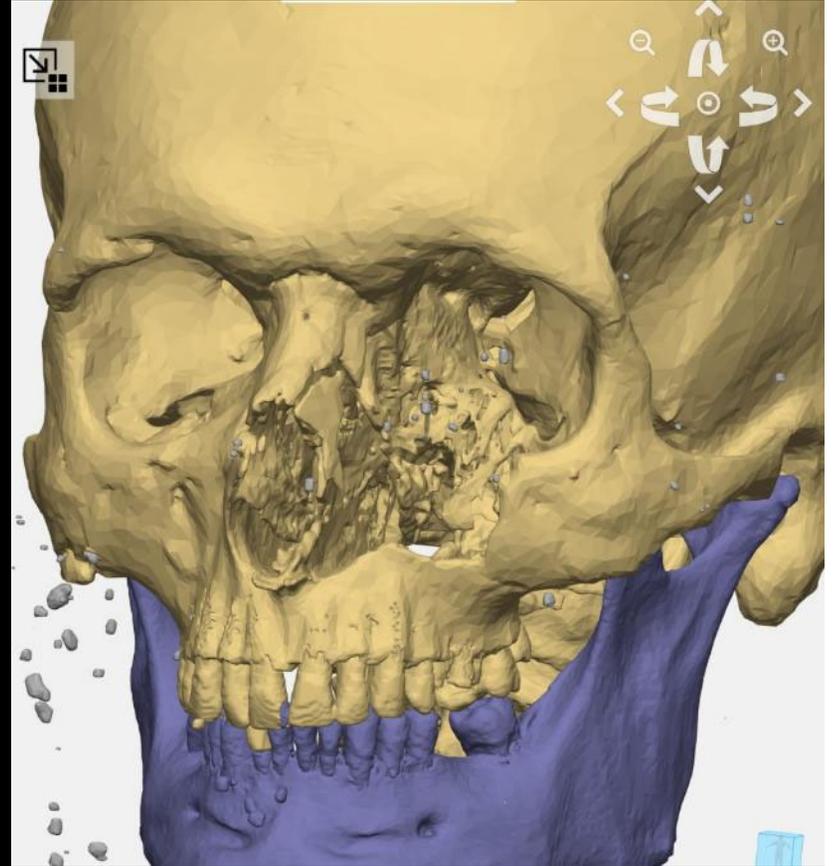
Stage 3: completion enucleation/DFG, BMMG to inferior fornix,
FTSG to LLL, rotational cheek flap, lateral canthopexy



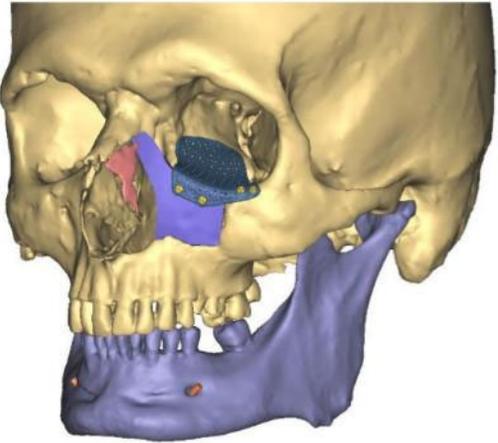
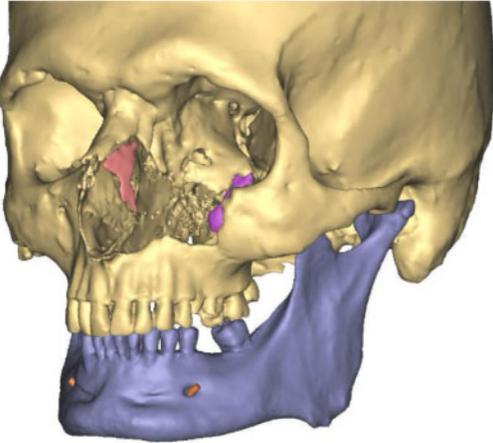
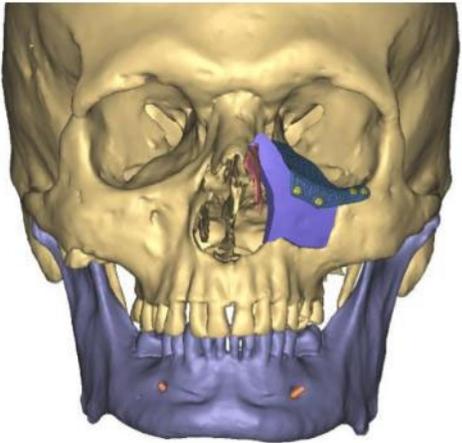
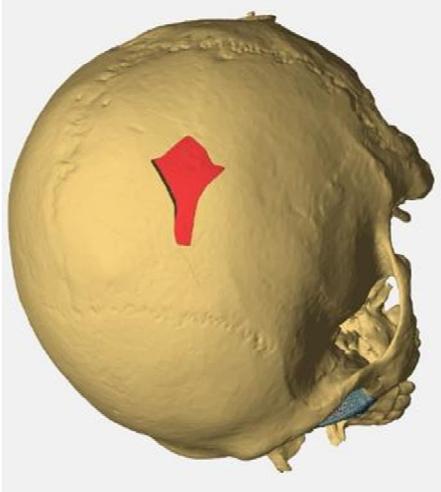
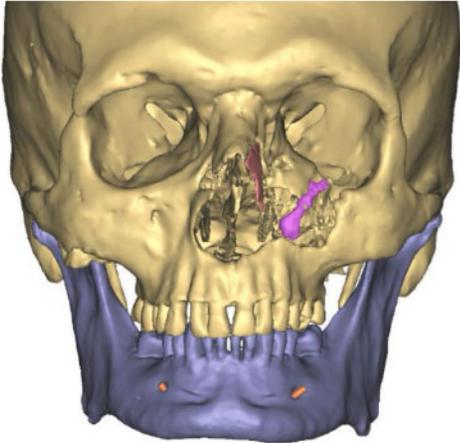




Orbit/maxillary PSI recon, completion enucleation/DFG,
cervicofacial flap



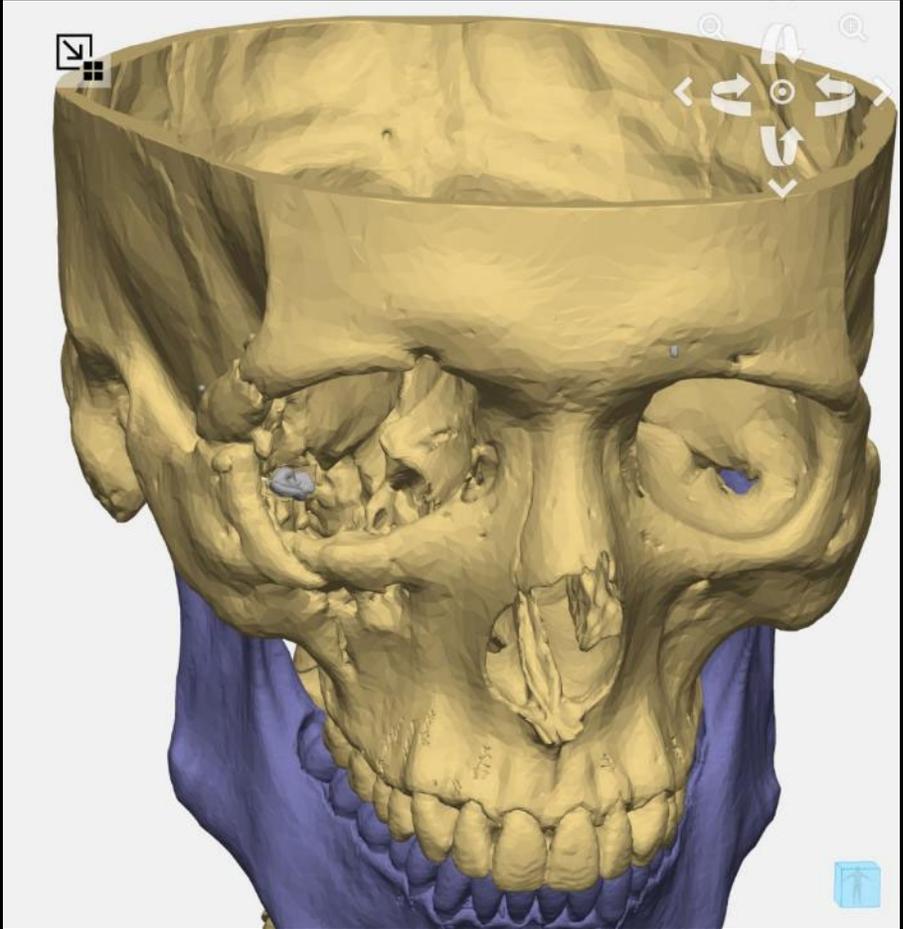
Surgical Plan: Pre-operative Position

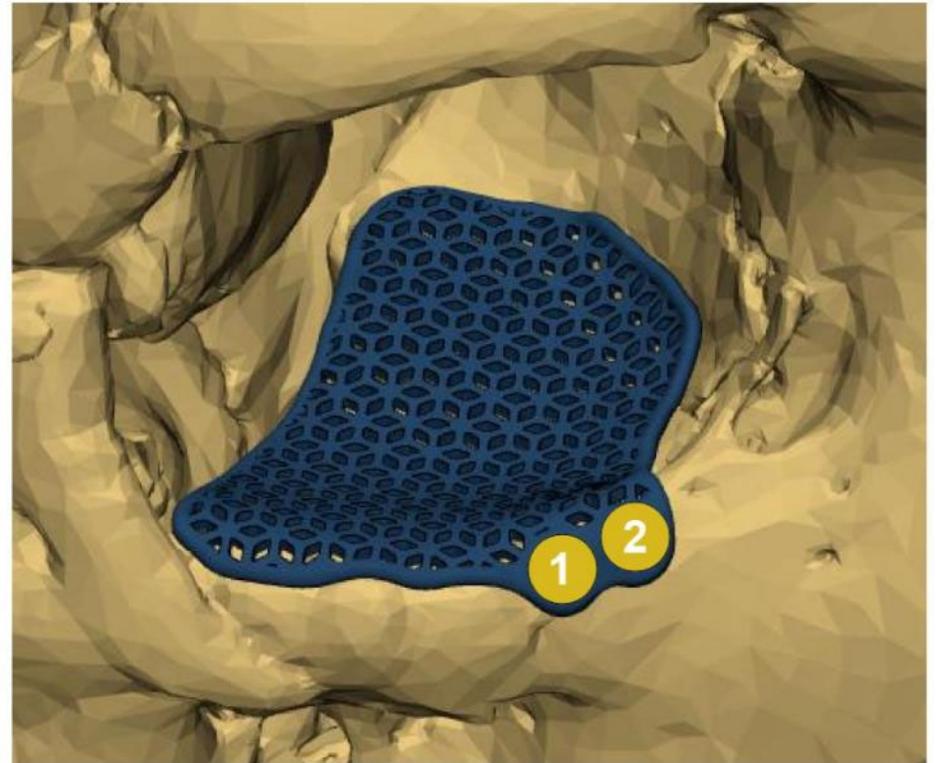
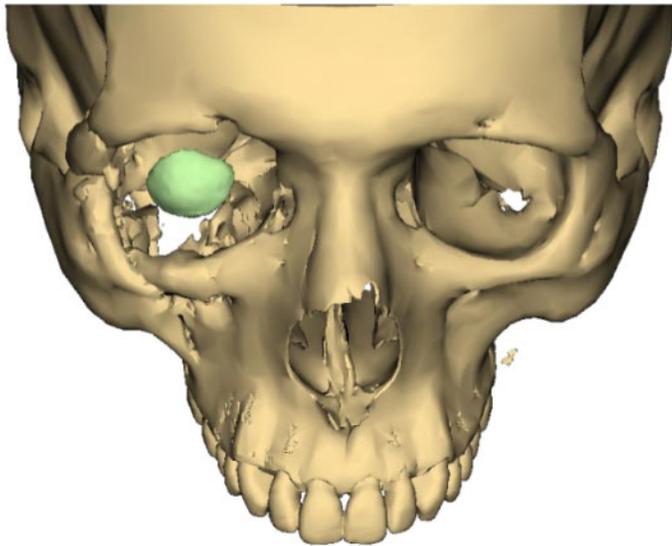


Calvarial bone graft, pericranial flap, transpositional forehead flap, nasal synechia release w/ FTSG, cervicofacial flap, lower lid release, orbital exploration

Ankyloblepharon/symblepharon release and contracted socket reconstruction with nasoseptal flap and BMMG







Orbital floor reconstruction w/ PSI, lower lid/socket reconstruction with auricular cartilage graft and transpositional temple flap





Oculoplastic Surgeons on Ukraine Missions

- Face the Future

- Ray Cho
- Vlad Kratky
- Tyler Pace
- Adam de la Garza

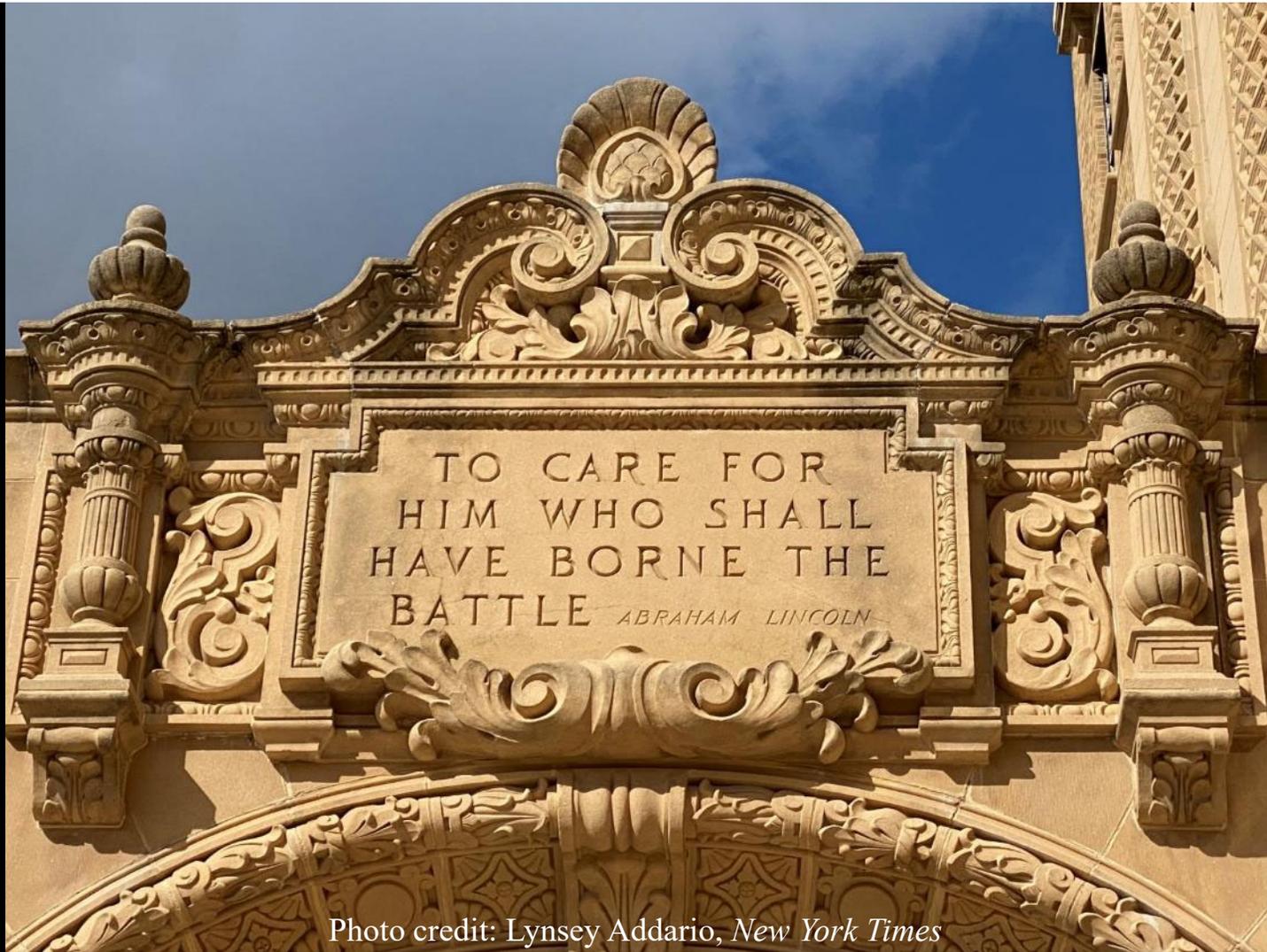
- Face to Face (AAFPRS)

- Bruce Moskowitz
- Parag Ghandi

- Leap Global Missions

- Stu Seiff
- Jorge Corona
- Steve Dresner
- Dave Russell





Thank You

wexnermedical.osu.edu



4:37

< Regions

Ivano-Frankivsk and Ivano-Frankivska community



Air Alert

Immediately proceed to the nearest shelter

If there is no shelters around:
At least two walls must separate you from the potential shell impact zone.

If you do not know where the nearest shelter is:
Use the Telegram bot @UkraineShelterSitalconBot by clicking the "Find shelter" button.
This bot will help you to find the closest shelter by geolocation.

Locate the nearest bomb shelter

Alert on air targets to approach

Alerts Map Useful Settings

